

GenCore version 5.1.6  
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M protein - protein search, using sw model

run on: March 30, 2004, 06:36:29 ; Search time 330 Seconds  
(without alignments)

450.375 Million cell updates/sec

title: US-10-053-510-8

perfect score: 2977

sequence: 1 MPSTDLMLKAFEPVLEILE.....LYSDITVTQSGMNGSPKPH 568

scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA.\*  
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19: /cgn2\_6/ptodata/2/pubaa/US10G\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2977	100.0	568	14	US-10-286-175-4
2	2977	100.0	568	14	US-10-197-073-4
3	2977	100.0	568	14	US-10-053-510-8
4	2977	100.0	568	15	US-10-348-052-8
5	2959	99.4	568	9	US-09-740-369-2
6	2959	99.4	568	14	US-10-053-510-18
7	2959	99.4	568	15	US-10-348-052-18
8	2553	85.8	568	14	US-10-286-175-2
9	2553	85.8	568	14	US-10-197-073-2
10	2553	85.8	568	14	US-10-053-510-6
11	2553	85.8	568	15	US-10-348-052-6
12	2498	83.9	488	14	US-10-286-175-10
13	2498	83.9	488	14	US-10-197-073-10
14	2498	83.9	488	14	US-10-053-510-10
15	2498	83.9	488	15	US-10-348-052-10

Sequence 16, Appl  
Sequence 6, Appl  
Sequence 16, Appl  
Sequence 11, Appl  
Sequence 11, Appl  
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Sequence 6, Appl  
Sequence 6, Appl  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 8, Appl  
Sequence 8, Appl  
Sequence 2, Appl  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 6, Appl  
Sequence 57998, A  
Sequence 169214,  
Sequence 216783,  
Sequence 55823, A  
Sequence 12, Appl  
Sequence 16, Appl  
Sequence 14, Appl  
Sequence 2, Appl  
Sequence 11138, A  
Sequence 2, Appl  
Sequence 4, Appl  
Sequence 248456,  
Sequence 2, Appl

#### ALIGNMENTS

#### RESULT 1

US-10-286-175-4  
Sequence 4, Application US/10286175  
Publication No. US20030059922A1

GENERAL INFORMATION:

APPLICANT: Saba, Julie D.

APPLICANT: Zhou, Jianhui

TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE

POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND

METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Seed Intellectual Property Law Group

STREET: 701 Fifth Avenue, Suite 6300

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98055

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/286,175

FILING DATE: 30-Oct-2002

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Rosenman, Steven J.

REGISTRATION NUMBER: 43,058

REFERENCE/DOCKET NUMBER: 200116.402C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 568 amino acids

TYPE: amino acid

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;
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-286-175-4

Query Match      100.0%; Score 2977; DB 14; Length 568;
Best Local Similarity 100.0%; Pred. No. 5.2e-287;
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIAVSWVTLIVNGYEFV 60
Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIAVSWVTLIVNGYEFV 60
QY 61 FQPSLSWRFKKKCFKLTAKNPIIGRIQDKLNTKDDISKMSFLKVDKEYVKALPSQG 120
Db 61 FQPSLSWRFKKKCFKLTAKNPIIGRIQDKLNTKDDISKMSFLKVDKEYVKALPSQG 120
QY 121 LSSSAVLKLEYSSMDAFWQEGRASCTVYSGEKLTELLVKAAGDFANSLPHDIPFG 180
Db 121 LSSSAVLKLEYSSMDAFWQEGRASCTVYSGEKLTELLVKAAGDFANSLPHDIPFG 180
QY 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGIKTPEIVAPQS 240
Db 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGIKTPEIVAPQS 240
QY 241 AHAANKAASVFGMKIVRVLTKMEVDVVRAMRAISRNTAMLVCSPTPPHGVDPVPE 300
Db 241 AHAANKAASVFGMKIVRVLTKMEVDVVRAMRAISRNTAMLVCSPTPPHGVDPVPE 300
QY 301 VAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGPAPKG 360
Db 301 VAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGPAPKG 360
QY 361 SSLVLYSDKKYRNQYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420
Db 361 SSLVLYSDKKYRNQYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420
QY 421 KQIIKTARFLKSELENIKGIFVFGNPNQLSLIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 480
Db 421 KQIIKTARFLKSELENIKGIFVFGNPNQLSLIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 480
QY 481 PSIHFCITLLHARKEVAIOFLKDIRESVTOIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540
Db 481 PSIHFCITLLHARKEVAIOFLKDIRESVTOIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540
QY 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568
Db 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568

RESULT 2
US-10-197-073-4
; Sequence 4, Application US/10197073
; Publication No. US20030166897A1
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; Zhen, Jianhui
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND
; METHODS OF USE THEREFOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed Intellectual Property Law Group
; STREET: 701 Fifth Avenue, Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98055
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10197,073
; FILING DATE: 15-Jul-2002
; CLASSIFICATION: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Urvater, Julie A.
; REGISTRATION NUMBER: 50,461
; REFERENCE/DOCKET NUMBER: 200116.402D2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 568 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-197-073-4

Query Match      100.0%; Score 2977; DB 14; Length 568;
Best Local Similarity 100.0%; Pred. No. 5.2e-287;
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIAVSWVTLIVNGYEFV 60
Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIAVSWVTLIVNGYEFV 60
QY 61 FQPSLSWRFKKKCFKLTAKNPIIGRIQDKLNTKDDISKMSFLKVDKEYVKALPSQG 120
Db 61 FQPSLSWRFKKKCFKLTAKNPIIGRIQDKLNTKDDISKMSFLKVDKEYVKALPSQG 120
QY 121 LSSSAVLKLEYSSMDAFWQEGRASCTVYSGEKLTELLVKAAGDFANSLPHDIPFG 180
Db 121 LSSSAVLKLEYSSMDAFWQEGRASCTVYSGEKLTELLVKAAGDFANSLPHDIPFG 180
QY 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGIKTPEIVAPQS 240
Db 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGIKTPEIVAPQS 240
QY 241 AHAANKAASVFGMKIVRVLTKMEVDVVRAMRAISRNTAMLVCSPTPPHGVDPVPE 300
Db 241 AHAANKAASVFGMKIVRVLTKMEVDVVRAMRAISRNTAMLVCSPTPPHGVDPVPE 300
QY 301 VAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGPAPKG 360
Db 301 VAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGPAPKG 360
QY 361 SSLVLYSDKKYRNQYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420
Db 361 SSLVLYSDKKYRNQYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420
QY 421 KQIIKTARFLKSELENIKGIFVFGNPNQLSLIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 480
Db 421 KQIIKTARFLKSELENIKGIFVFGNPNQLSLIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 480
QY 481 PSIHFCITLLHARKEVAIOFLKDIRESVTOIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540
Db 481 PSIHFCITLLHARKEVAIOFLKDIRESVTOIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540
QY 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568
Db 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568

RESULT 3
US-10-053-510-8
; Sequence 8, Application US/10053510
; Publication No. US2003017593A1
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; APPLICANT: Fyrest, Henrik
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,

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; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; FILE REFERENCE: 200116.402C2  
; CURRENT APPLICATION NUMBER: US/10/053,510  
; CURRENT FILING DATE: 2002-01-17  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 568  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; JS-10-053-510-8

Query Match 100.0%; Score 2977; DB 14; Length 568;  
Best Local Similarity 100.0%; Pred. No. 5.2e-287;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 61 FQPSLSMSRFKKCFKLTROMPIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQ 120  
Db 61 FQPSLSMSRFKKCFKLTROMPIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQ 120  
QY 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGEEKLTLLVKAYGDFAWSNPLHDPFPG 180  
Db 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGEEKLTLLVKAYGDFAWSNPLHDPFPG 180  
QY 181 LRKIEASIVRIACSLFNGGPDSCGCVTSGGTESIIMACKACRDLAPEKGIKTPETVAPQS 240  
Db 181 LRKIEASIVRIACSLFNGGPDSCGCVTSGGTESIIMACKACRDLAPEKGIKTPETVAPQS 240  
QY 241 AHAAFNKAASVFGKIVRPLTKQMEVDVVRAMERAI SRNTAMLCVSTQPPHGVDPVPE 300  
Db 241 AHAAFNKAASVFGKIVRPLTKQMEVDVVRAMERAI SRNTAMLCVSTQPPHGVDPVPE 300  
QY 301 VAKLAVKIPLHVDACLGFLIVFMEKAGYLEHPDFRVKGVTSISADTHKYGYAPKG 360  
Db 301 VAKLAVKIPLHVDACLGFLIVFMEKAGYLEHPDFRVKGVTSISADTHKYGYAPKG 360  
QY 361 SSLVLYSDKKYRNQYFVDTDWGGIYASPTTAGSRPGGISACWAALMHFGENGYVEAT 420  
Db 361 SSLVLYSDKKYRNQYFVDTDWGGIYASPTTAGSRPGGISACWAALMHFGENGYVEAT 420  
QY 421 KQIIKTARFLKSELENIKGIFVFGNPNQSLIALGSRDFDIYRLSNLMTAKGNLNLQLOFP 480  
Db 421 KQIIKTARFLKSELENIKGIFVFGNPNQSLIALGSRDFDIYRLSNLMTAKGNLNLQLOFP 480  
QY 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYAMAQTTVDNRNVAE 540  
Db 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYAMAQTTVDNRNVAE 540

RESULT 4  
US-10-348-052-8  
; Sequence 8, Application US/10348052  
; Publication No. US20030219782A1  
; GENERAL INFORMATION:  
; APPLICANT: Fyrest, Henrik  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION  
; OF SPRINGOLIPID METABOLISM AND/OR SIGNALING  
; FILE REFERENCE: 200116.405  
; CURRENT APPLICATION NUMBER: US/10/348,052  
; CURRENT FILING DATE: 2003-01-17  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8

; LENGTH: 568  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-348-052-8  
Query Match 100.0%; Score 2977; DB 15; Length 568;  
Best Local Similarity 100.0%; Pred. No. 5.2e-287;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MPSTLLMLKAFEPYLEILEVYSTKAKYVNGHCTKYPWQLIAMSVVWTLIIWGYEFV 60  
QY 61 FQPSLSMSRFKKCFKLTROMPIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQ 120  
Db 61 FQPSLSMSRFKKCFKLTROMPIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQ 120  
QY 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGEEKLTLLVKAYGDFAWSNPLHDPFPG 180  
Db 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGEEKLTLLVKAYGDFAWSNPLHDPFPG 180  
QY 181 LRKIEASIVRIACSLFNGGPDSCGCVTSGGTESIIMACKACRDLAPEKGIKTPETVAPQS 240  
Db 181 LRKIEASIVRIACSLFNGGPDSCGCVTSGGTESIIMACKACRDLAPEKGIKTPETVAPQS 240  
QY 241 AHAAFNKAASVFGKIVRPLTKQMEVDVVRAMERAI SRNTAMLCVSTQPPHGVDPVPE 300  
Db 241 AHAAFNKAASVFGKIVRPLTKQMEVDVVRAMERAI SRNTAMLCVSTQPPHGVDPVPE 300  
QY 301 VAKLAVKIPLHVDACLGFLIVFMEKAGYLEHPDFRVKGVTSISADTHKYGYAPKG 360  
Db 301 VAKLAVKIPLHVDACLGFLIVFMEKAGYLEHPDFRVKGVTSISADTHKYGYAPKG 360  
QY 361 SSLVLYSDKKYRNQYFVDTDWGGIYASPTTAGSRPGGISACWAALMHFGENGYVEAT 420  
Db 361 SSLVLYSDKKYRNQYFVDTDWGGIYASPTTAGSRPGGISACWAALMHFGENGYVEAT 420  
QY 421 KQIIKTARFLKSELENIKGIFVFGNPNQSLIALGSRDFDIYRLSNLMTAKGNLNLQLOFP 480  
Db 421 KQIIKTARFLKSELENIKGIFVFGNPNQSLIALGSRDFDIYRLSNLMTAKGNLNLQLOFP 480  
QY 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYAMAQTTVDNRNVAE 540  
Db 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYAMAQTTVDNRNVAE 540  
QY 541 LSSVFLDSLSTYTDVTQGSQMGSPKPH 568  
Db 541 LSSVFLDSLSTYTDVTQGSQMGSPKPH 568

RESULT 5  
US-09-740-369-2  
; Sequence 2, Application US/09740369  
; Patent No. US20020168710A1  
; GENERAL INFORMATION:  
; APPLICANT: DUCKWORTH, DAVID MALCOLM  
; APPLICANT: GODDEN, ROBERT JAMES  
; APPLICANT: TESTA, TANIA TAMSON  
; TITLE OF INVENTION: NOVEL COMPOUNDS  
; FILE REFERENCE: GP-30034-D1  
; CURRENT APPLICATION NUMBER: US/09/740,369  
; CURRENT FILING DATE: 2000-12-19  
; PRIOR APPLICATION NUMBER: EP 98300625.5  
; PRIOR FILING DATE: 1998-01-29  
; PRIOR APPLICATION NUMBER: UK 9824026.0  
; PRIOR FILING DATE: 1998-11-03  
; PRIOR APPLICATION NUMBER: 09/238,373  
; PRIOR FILING DATE: 1999-01-27  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 568  
; TYPE: PRT

ORGANISM: HOMO SAPIENS  
JS-09-740-369-2

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Query Match          99.4%; Score 2959; DB 9; Length 568;
Best Local Similarity 99.5%; Pred. No. 3.2e-285;
Matches 565; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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DB 1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGHCTKYEPWQLIAMSVVWTLIIVMGYEFV 60

QY 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120
DB 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120

QY 121 LSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGBEKLTTELLVKAYGDFAWSNPLHPDIPPG 180
DB 121 LSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGBEKLTTELLVKAYGDFAWSNPLHPDIPPG 180

QY 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSILMACACEDLAFEGIKTPEIIVAPQS 240
DB 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSILMACACEDLAFEGIKTPEIIVAPQS 240

QY 241 AHAAPNKAASYFGMKIVRVPLTKOMEVDVVRAMRAISRNTAMLVGSTPQPHGVDPVPE 300
DB 241 AHAAPNKAASYFGMKIVRVPLTKOMEVDVVRAMRAISRNTAMLVGSTPQPHGVDPVPE 300

QY 301 VAKLAVKIKPLHVDACLGGLFVFEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360
DB 301 VAKLAVKIKPLHVDACLGGLFVFEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360

QY 361 SSVLYSDKKYRNYQFFVTDWQGGIYASPTIAGSRPGGISAAACWAALMHFGENGYYEAT 420
DB 361 SSVLYSDKKYRNYQFFVTDWQGGIYASPTIAGSRPGGISAAACWAALMHFGENGYYEAT 420

QY 421 KOIKTARFLKSELENIKGIFFVGNPQLSLIALGSRDPIYLSNLMTAKGNLNLQLOFP 480
DB 421 KOIKTARFLKSELENIKGIFFVGNPQLSLIALGSRDPIYLSNLMTAKGNLNLQLOFP 480

QY 481 PSIHFCITLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540
DB 481 PSIHFCITLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540

QY 541 LSSVFLDSLSTDTVTGSGQMGSPKPH 568
DB 541 LSSVFLDSLSTDTVTGSGQMGSPKPH 568

RESULT 6
US-10-053-510-18
; Sequence 18, Application US/10053510
; Publication No. US20030175939A1
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; TITLE OF INVENTION: 1-PHOSPHATE LYASE POLYPEPTIDES,
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND
; TITLE OF INVENTION: METHODS OF USE THEREFOR
; FILE REFERENCE: 200116.402C2
; CURRENT APPLICATION NUMBER: US/10/053,510
; CURRENT FILING DATE: 2002-01-17
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-053-510-18

Query Match          99.4%; Score 2959; DB 14; Length 568;
Best Local Similarity 99.5%; Pred. No. 3.2e-285;
Matches 565; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGHCTKYEPWQLIAMSVVWTLIIVMGYEFV 60
DB 1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGHCTKYEPWQLIAMSVVWTLIIVMGYEFV 60

QY 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120
DB 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120

QY 121 LSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGBEKLTTELLVKAYGDFAWSNPLHPDIPPG 180
DB 121 LSSAVLEKLEKEYSSMDAFWQEGRASGTYYSGBEKLTTELLVKAYGDFAWSNPLHPDIPPG 180

QY 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSILMACACEDLAFEGIKTPEIIVAPQS 240
DB 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSILMACACEDLAFEGIKTPEIIVAPQS 240

QY 241 AHAAPNKAASYFGMKIVRVPLTKOMEVDVVRAMRAISRNTAMLVGSTPQPHGVDPVPE 300
DB 241 AHAAPNKAASYFGMKIVRVPLTKOMEVDVVRAMRAISRNTAMLVGSTPQPHGVDPVPE 300

QY 301 VAKLAVKIKPLHVDACLGGLFVFEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360
DB 301 VAKLAVKIKPLHVDACLGGLFVFEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360

QY 361 SSVLYSDKKYRNYQFFVTDWQGGIYASPTIAGSRPGGISAAACWAALMHFGENGYYEAT 420
DB 361 SSVLYSDKKYRNYQFFVTDWQGGIYASPTIAGSRPGGISAAACWAALMHFGENGYYEAT 420

QY 421 KOIKTARFLKSELENIKGIFFVGNPQLSLIALGSRDPIYLSNLMTAKGNLNLQLOFP 480
DB 421 KOIKTARFLKSELENIKGIFFVGNPQLSLIALGSRDPIYLSNLMTAKGNLNLQLOFP 480

QY 481 PSIHFCITLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540
DB 481 PSIHFCITLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540

QY 541 LSSVFLDSLSTDTVTGSGQMGSPKPH 568
DB 541 LSSVFLDSLSTDTVTGSGQMGSPKPH 568

RESULT 7
US-10-348-052-18
; Sequence 18, Application US/10348052
; Publication No. US20030229782A1
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION
; TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING
; FILE REFERENCE: 200116.405
; CURRENT APPLICATION NUMBER: US/10/348,052
; CURRENT FILING DATE: 2003-01-17
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-348-052-18

Query Match          99.4%; Score 2959; DB 15; Length 568;
Best Local Similarity 99.5%; Pred. No. 3.2e-285;
Matches 565; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGHCTKYEPWQLIAMSVVWTLIIVMGYEFV 60
DB 1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGHCTKYEPWQLIAMSVVWTLIIVMGYEFV 60

QY 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120
DB 61 POPSLWSRFFKKCFKLTTRKMPFIIGRKIQDKLNKTDDISKMSFLKVDKEYVKALPSQG 120

```



121 LSSSAVLEKLEKYSNDMAFWQGRASGTVYSGEKLTLLVKAAGDFAMSNPLHPDIPPG 180  
121 LSSSAVLEKLEKYSNDMAFWQGRASGTVYSGEKLTLLVKAAGDFAMSNPLHPDIPPG 180  
181 LRKIEAEIVRIACSLFNGGPDSCGCVTSSTGTSILMACKADIAFEKIGKTPETVAPQS 240  
181 LRKIEAEIVRIACSLFNGGPDSCGCVTSSTGTSILMACKADIAFEKIGKTPETVAPQS 240  
241 AHAFAFNKAASYFGMKIVRVPLTQMEVDVVRMRRAISNTAMLCVSTQFPFHGVDPVPE 300  
241 AHAFAFNKAASYFGMKIVRVPLTQMEVDVVRMRRAISNTAMLCVSTQFPFHGVDPVPE 300  
301 VAKLAVKYKIPHLVDACLGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360  
301 VAKLAVKYKIPHLVDACLGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360  
361 SSLVLVSDKKYRNYQPFVDTDWGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
361 SSLVLVSDKKYRNYQPFVDTDWGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
421 KOIKTARFLKSELENIKGIFVFGNPLSLIA:GSRDPDIYRLSNLMTAKGNLNLQLOPP 480  
421 KOIKTARFLKSELENIKGIFVFGNPLSLIA:GSRDPDIYRLSNLMTAKGNLNLQLOPP 480  
481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540  
481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540  
541 LSSVFLDSLSTDTVTQGSQMGSPKPH 568  
541 LSSVFLDSLSTDTVTQGSQMGSPKPH 568

RESULT 8

US-10-286-175-2  
Sequence 2, Application US/10286175  
Publication No. US2003005922A1  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
Zhou, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/286,175  
FILING DATE: 30-Oct-2002  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Roseman, Steven J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 200116.402C3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 568 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-286-175-2

Query Match 85.8%; Score 2553; DB 14; Length 568;  
Best Local Similarity 84.1%; Pred. No. 8.7e-245;  
Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;

1 MFSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWOLIAWSVVWTLIIWVGEFV 60  
1 MFSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWOLIAWSVVWTLIIWVGEFV 60  
61 FQESLWSRFKKCKFLKTRKMPFIIGRKIQDLKNTKFDISQMSFLKVDKXYVVALPSQG 120  
61 FQESLWSRFKKCKFLKTRKMPFIIGRKIQDLKNTKFDISQMSFLKVDKXYVVALPSQG 120  
121 LSSSAVLEKLEKYSNDMAFWQGRASGTVYSGEKLTLLVKAAGDFAMSNPLHPDIPPG 180  
121 MGTAELVLEKLEKYSNDMAFWQGRASGTVYSGEKLTLLVKAAGDFAMSNPLHPDIPPG 180  
181 LRKIEAEIVRIACSLFNGGPDSCGCVTSSTGTSILMACKADIAFEKIGKTPETVAPQS 240  
181 LRKIEAEIVRIACSLFNGGPDSCGCVTSSTGTSILMACKADIAFEKIGKTPETVAPQS 240  
241 AHAFAFNKAASYFGMKIVRVPLTQMEVDVVRMRRAISNTAMLCVSTQFPFHGVDPVPE 300  
241 AHAFAFNKAASYFGMKIVRVPLTQMEVDVVRMRRAISNTAMLCVSTQFPFHGVDPVPE 300  
301 VAKLAVKYKIPHLVDACLGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360  
301 VAKLAVKYKIPHLVDACLGFLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360  
361 SSLVLVSDKKYRNYQPFVDTDWGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
361 SSVVMYSNEKIRTYQPFVGDWQGGYASPSIAGSRPGGIIAACWAALMHFGENGVEAT 420  
421 KOIKTARFLKSELENIKGIFVFGNPLSLIA:GSRDPDIYRLSNLMTAKGNLNLQLOPP 480  
421 KOIKTARFLKSELENIKGIFVFGNPLSLIA:GSRDPDIYRLSNLMTAKGNLNLQLOPP 480  
481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540  
481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540  
541 LSSVFLDSLSTDTVTQGSQMGSPKPH 567  
541 LSSVFLDSLSTDTVTQGSQMGSPKPH 567

RESULT 9

US-10-197-073-2  
Sequence 2, Application US/10197073  
Publication No. US20030166897A1  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
Zhou, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/197,073

FILING DATE: 15-Jul-2002  
 CLASSIFICATION: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Urvater, Julie A.  
 REGISTRATION NUMBER: 50,461  
 REFERENCE/DOCKET NUMBER: 200116.402D2  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (206) 622-4900  
 TELEFAX: (206) 682-6031  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 568 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match 85.8%; Score 2553; DB 14; Length 568;  
 Best Local Similarity 84.1%; Pred. No. 8,7e-245;  
 Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPMQLIAMSVVWTLIIWGVYEFV 60  
 DB 1 MPTGDLKLDPEYLEILEVYSTKAKNYVNGHCTKYEPMQLIAMSVVWTLIIWVYELI 60  
 QY 61 FQPSLWSRPFKKCFKLIRKMPFIIGRKIQDILNKTKDDISKNNFLLKYDYKVKALPSQG 120  
 DB 61 FQPSLWSRPFKKCFKLIRKMPFIIGRKIEQQVSKAKDLVKNMPFLKVDKDYVKTLPAGQ 120  
 QY 121 LSSSAVLEKLEKYSMDAFWQEGASGTVYSGEKLTELLVKAQDPAWSNPLHPDIFPG 180  
 DB 121 MGTAEVLRLKEYSSMDGSGWQEGKASGAVNGEPKLTTELLVQAYGEFTWSNPLHPDIFPG 180  
 QY 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGKIKTPEIIVAPQS 240  
 DB 181 LRKLEAEIVRMTCSLFNGGPDSCGCVTSGGTESILMACAYRDLALEKIKTPEIIVAPES 240  
 QY 241 AHAFAFNKAASYFGMKIVRVPLTKMEVDVRAERAI SRNTAMLCVSTPQPHGVDPVPE 300  
 DB 241 AHAFAFDKAHYFGMKIVRVALKKNMEVDVQAKRAI SRNTAMLCVSTPQPHGVMDPVPE 300  
 QY 301 VAKLAVKYKIPHLVDACLGGLFIVFMEKAGYPLEPFDPRVKGVTISADTHKYGYAPKG 360  
 DB 301 VAKLTVRYKIPHLVDACLGGLFIVFMEKAGYPLEPFDPRVKGVTISADTHKYGYAPKG 360  
 QY 361 SSLVLVSKKYRYNQYFVDTWQGGIYASPTIAGSRPGGISAAACWALMHFGNGYVEAT 420  
 DB 361 SSVVMYSNEKYRTYQYFVGADWQGGVYASPSIAGSRPGGIIAACWALMHFGNGYVEAT 420  
 QY 421 KQIIKTARFLKSELENIKGIFVFGNPSLIAGSRDPIYRLSNLMTAKGNLNLQFP 480  
 DB 421 KQIIKTARFLKSELENIKNIFIGDPQLSVIALGSDNFDIYRLSNMMSAKGNFNLYQFP 480  
 QY 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYMAQTTVDNRNVAE 540  
 DB 481 RSHFCITLVHTRKRVAIQFLKDIRESVTQIMKNPKAKTTGMGALYMAQATIDRKLVAE 540  
 QY 541 LSSVFLDSLSTDTVTQSGQMGSPKP 567  
 DB 541 ISSVFLDCLYTTDPVTQGNQMGSPKP 567

RESULT 10  
 US-10-053-510-6  
 ; Sequence 6, Application US/10053510  
 ; Publication NO. US20030175939A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saba, Julie D.  
 ; APPLICANT: Fyrest, Henrik  
 ; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
 ; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
 ; TITLE OF INVENTION: METHODS OF USE THEREFOR

FILE REFERENCE: 200116.402C2  
 CURRENT APPLICATION NUMBER: US/10/053,510  
 CURRENT FILING DATE: 2002-01-17  
 NUMBER OF SEQ ID NOS: 21  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 6  
 LENGTH: 568  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 US-10-053-510-6

Query Match 85.8%; Score 2553; DB 14; Length 568;  
 Best Local Similarity 84.1%; Pred. No. 8,7e-245;  
 Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPMQLIAMSVVWTLIIWGVYEFV 60  
 DB 1 MPTGDLKLDPEYLEILEVYSTKAKNYVNGHCTKYEPMQLIAMSVVWTLIIWVYELI 60  
 QY 61 FQPSLWSRPFKKCFKLIRKMPFIIGRKIQDILNKTKDDISKNNFLLKYDYKVKALPSQG 120  
 DB 61 FQPSLWSRPFKKCFKLIRKMPFIIGRKIEQQVSKAKDLVKNMPFLKVDKDYVKTLPAGQ 120  
 QY 121 LSSSAVLEKLEKYSMDAFWQEGASGTVYSGEKLTELLVKAQDPAWSNPLHPDIFPG 180  
 DB 121 MGTAEVLRLKEYSSMDGSGWQEGKASGAVNGEPKLTTELLVQAYGEFTWSNPLHPDIFPG 180  
 QY 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFEGKIKTPEIIVAPQS 240  
 DB 181 LRKLEAEIVRMTCSLFNGGPDSCGCVTSGGTESILMACAYRDLALEKIKTPEIIVAPES 240  
 QY 241 AHAFAFNKAASYFGMKIVRVPLTKMEVDVRAERAI SRNTAMLCVSTPQPHGVDPVPE 300  
 DB 241 AHAFAFDKAHYFGMKIVRVALKKNMEVDVQAKRAI SRNTAMLCVSTPQPHGVMDPVPE 300  
 QY 301 VAKLAVKYKIPHLVDACLGGLFIVFMEKAGYPLEPFDPRVKGVTISADTHKYGYAPKG 360  
 DB 301 VAKLTVRYKIPHLVDACLGGLFIVFMEKAGYPLEPFDPRVKGVTISADTHKYGYAPKG 360  
 QY 361 SSLVLVSKKYRYNQYFVDTWQGGIYASPTIAGSRPGGISAAACWALMHFGNGYVEAT 420  
 DB 361 SSVVMYSNEKYRTYQYFVGADWQGGVYASPSIAGSRPGGIIAACWALMHFGNGYVEAT 420  
 QY 421 KQIIKTARFLKSELENIKGIFVFGNPSLIAGSRDPIYRLSNLMTAKGNLNLQFP 480  
 DB 421 KQIIKTARFLKSELENIKNIFIGDPQLSVIALGSDNFDIYRLSNMMSAKGNFNLYQFP 480  
 QY 481 PSIHFCITLLHARKVAIQFLKDIRESVTQIMKNPKAKTTGMGALYMAQTTVDNRNVAE 540  
 DB 481 RSHFCITLVHTRKRVAIQFLKDIRESVTQIMKNPKAKTTGMGALYMAQATIDRKLVAE 540  
 QY 541 LSSVFLDSLSTDTVTQSGQMGSPKP 567  
 DB 541 ISSVFLDCLYTTDPVTQGNQMGSPKP 567

RESULT 11  
 US-10-348-052-6  
 ; Sequence 6, Application US/10348052  
 ; Publication NO. US20030219782A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saba, Julie D.  
 ; APPLICANT: Fyrest, Henrik  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION  
 ; TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING  
 ; FILE REFERENCE: 200116.405  
 ; CURRENT APPLICATION NUMBER: US/10/348,052  
 ; CURRENT FILING DATE: 2003-01-17  
 ; NUMBER OF SEQ ID NOS: 29  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 6  
 LENGTH: 568  
 TYPE: PRT

ORGANISM: Mus musculus  
US-10-348-052-6  
Query Match 85.8%; Score 2553; DB 15; Length 568;  
Best Local Similarity 84.1%; Pred. No. 8.7e-245;  
Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;  
Y 1 MPSTDLMLKAFEPYLEILEVYSTKAKNVYNGHCTKYEPWQLIAMSVVWTLIIWGYEFV 60  
b 1 MPSTDLMLKAFEPYLEILEVYSTKAKNVYNGHCTKYEPWQLIAMSVVWTLIIWGYELI 60  
Y 61 FQPSLWSRFKKCFKLTTRKMPPIIGRIQIDKLNKTDDISKMSFLKVDKEYVKALPSQG 120  
b 61 FQPSLWSRFKKCFKLTTRKMPPIIGRIQIDKLNKTDDISKMSFLKVDKEYVKALPSQG 120  
Y 121 LSSSAVLEKLEKYSMDAFWQEGRASGVTSYSGEKLTELLVKAAGDFANSLPHDIPFG 180  
b 121 MGTAEVLEKLEKYSMDAFWQEGRASGVTSYSGEKLTELLVKAAGDFANSLPHDIPFG 180  
Y 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSQGTESILMACACRDLAPEKGIKTPETVAPQS 240  
b 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSQGTESILMACACRDLAPEKGIKTPETVAPES 240  
Y 241 AHAAFNKAASYFGMKIVRPLTKQMEVDVRAARRAISRNTAMLVCSSTPQPHGVDPVPE 300  
b 241 AHAAFNKAASYFGMKIVRPLTKQMEVDVRAARRAISRNTAMLVCSSTPQPHGVDPVPE 300  
Y 301 VAKLAVYKIPLVHVDACLGGLIVFMKAGYPLEHPDFRVRKGVTSISADTHKYGVAPKG 360  
b 301 VAKLAVYKIPLVHVDACLGGLIVFMKAGYPLEHPDFRVRKGVTSISADTHKYGVAPKG 360  
Y 361 SSVLYSDKKYRNYQFFVDTDMQGGIYASPTIAGSRPGGISAAACWAALMHFGENGVEAT 420  
b 361 SSVLYSDKKYRNYQFFVDTDMQGGIYASPTIAGSRPGGISAAACWAALMHFGENGVEAT 420  
Y 421 KQIITKARFLKSELENIGIFVFNQPSLIALGSRDFDIYRLSNLMTAKGNLQLOPP 480  
b 421 KQIITKARFLKSELENIGIFVFNQPSLIALGSRDFDIYRLSNLMTAKGNLQLOPP 480  
Y 481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYAMAQTTVDNRMAE 540  
b 481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYAMAQTTVDNRMAE 540  
Y 541 LSSVFLDSLSTDTVTQSGOMNGSPKP 567  
b 541 LSSVFLDSLSTDTVTQSGOMNGSPKP 567

RESULT 12  
US-10-286-175-10  
; Sequence 10, Application US/10286175  
; Publication No. US20030059922A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Seed Intellectual Property Law Group  
; STREET: 701 Fifth Avenue, Suite 6300  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98055  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/286,175

FILING DATE: 30-Oct-2002  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Rosenman, Steven J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 200116.402C3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 488 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
US-10-286-175-10  
Query Match 83.9%; Score 2498; DB 14; Length 488;  
Best Local Similarity 85.9%; Pred. No. 2.1e-239;  
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;  
QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKNVYNGHCTKYEPWQLIAMSVVWTLIIWGYEFV 60  
Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKNVYNGHCTKYEPWQLIAMSVVWTLIIWGYEFV 60  
QY 61 FQPSLWSRFKKCFKLTTRKMPPIIGRIQIDKLNKTDDISKMSFLKVDKEYVKALPSQG 120  
Db 61 FQPSLWSRFKKCFKLTTRKMPPIIGRIQIDKLNKTDDISKMSFLKVDKEYVKALPSQG 120  
QY 121 LSSSAVLEKLEKYSMDAFWQEGRASGVTSYSGEKLTELLVKAAGDFANSLPHDIPFG 180  
Db 121 LSSSAVLEKLEKYSMDAFWQEGRASGVTSYSGEKLTELLVKAAGDFANSLPHDIPFG 180  
QY 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSQGTESILMACACRDLAPEKGIKTPETVAPQS 240  
Db 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSQGTESILMACACRDLAPEKGIKTPETVAPQS 240  
QY 241 AHAAFNKAASYFGMKIVRPLTKQMEVDVRAARRAISRNTAMLVCSSTPQPHGVDPVPE 300  
Db 241 AHAAFNKAASYFGMKIVRPLTKQMEVDVRAARRAISRNTAMLVCSSTPQPHGVDPVPE 300  
QY 301 VAKLAVYKIPLVHVDACLGGLIVFMKAGYPLEHPDFRVRKGVTSISADTHKYGVAPKG 360  
Db 301 VAKLAVYKIPLVHVDACLGGLIVFMKAGYPLEHPDFRVRKGVTSISADTHK----- 353  
QY 361 SSVLYSDKKYRNYQFFVDTDMQGGIYASPTIAGSRPGGISAAACWAALMHFGENGVEAT 420  
Db 354 ----- 353  
QY 421 KQIITKARFLKSELENIGIFVFNQPSLIALGSRDFDIYRLSNLMTAKGNLQLOPP 480  
Db 354 -----LENIKGIIFVFNQPSLIALGSRDFDIYRLSNLMTAKGNLQLOPP 400  
QY 481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYAMAQTTVDNRMAE 540  
Db 401 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYAMAQTTVDNRMAE 460  
QY 541 LSSVFLDSLSTDTVTQSGOMNGSPKP 568  
Db 461 LSSVFLDSLSTDTVTQSGOMNGSPKP 488  
RESULT 13  
US-10-197-073-10  
; Sequence 10, Application US/10197073  
; Publication No. US20030166897A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/197,073  
FILING DATE: 15-Jul-2002  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Urwater, Julie A.  
REGISTRATION NUMBER: 50,461  
REFERENCE/DOCKET NUMBER: 200116.402D2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 488 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
US-10-197-073-10

Query Match 83.9%; Score 2498; DB 14; Length 488;  
Best Local Similarity 85.9%; Pred. No. 2.1e-239;  
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;  
QY 1 MPSTDLLMLKAFEPYLEILEVYSTAKYVNGHCTKYEPLQIAWSVWTLIIWVGEFV 60  
DB 1 MPSTDLLMLKAFEPYLEILEVYSTAKYVNGHCTKYEPLQIAWSVWTLIIWVGEFV 60  
QY 61 FQPSLSWRFKKCFKLTTRKMPITIGRKIQDKLNTKDDISKNMSFLKVDKEYVKALPSQG 120  
DB 61 FQPSLSWRFKKCFKLTTRKMPITIGRKIQDKLNTKDDISKNMSFLKVDKEYVKALPSQG 120  
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; Sequence 10, Application US/10053510  
; Publication No. US20030175939A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: First, Henrik  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C2  
; CURRENT APPLICATION NUMBER: US/10/053,510  
; CURRENT FILING DATE: 2002-01-17  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10  
; LENGTH: 488  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
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Best Local Similarity 85.9%; Pred. No. 2.1e-239;  
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;  
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; Sequence 10, Application US/10348052
; Publication No. US200302.9782A1
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; APPLICANT: Fyzst, Henrik
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION
; OF SPHINGOLIPID METABOLISM AND/OR SIGNALING
; FILE REFERENCE: 200116.405
; CURRENT APPLICATION NUMBER: US/10/348,052
; CURRENT FILING DATE: 2003-01-17
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 488
; TYPE: PRT
; ORGANISM: Homo sapiens
JS-10-348-052-10

Query Match      83.9%; Score 2498; DB 15; Length 488;
Best Local Similarity 85.9%; Pred. No. 2.1e-239;
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;

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3y 541 LSSVFLDSLSYSTDVTQGSQNGSPKPH 568
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Copyright (c) 1993 - 2004 CompuGen Ltd.

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Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	2977	100.0	568	4	US-09-849-180-4
3	2977	100.0	568	4	US-09-356-643B-8
4	2959	99.4	568	3	US-09-238-373-2
5	2959	99.4	568	4	US-09-740-369-2
6	2553	85.8	568	4	US-08-939-309-2
7	2553	85.8	568	4	US-09-849-180-2
8	2553	85.8	568	4	US-09-356-643B-6
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Patent No. 5475086  
Sequence 5665, Ap  
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Sequence 11, Appl  
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ALIGNMENTS

RESULT 1

US-08-939-309-4

Sequence 4, Application US/08939309  
Patent No. 6423527

GENERAL INFORMATION:

APPLICANT: Saba, Julie D.

APPLICANT: Zhou, Jianhui

TITLE OF INVENTION: SPRINGOSINE-1-PHOSPHATE LYASE

TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND

TITLE OF INVENTION: METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/939,309

FILING DATE: 29-SEP-1997

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: David, Maki J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 200116.402

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 568 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-939-309-4

Query Match 100.0%; Score 2977; DB 4; Length 568;  
Best Local Similarity 100.0%; Pred. No. 2.1e-279;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MPSTDLMLKAFEPYLEILEVYSTKAKYNGHCTKYEPQWLIAKSVVWTLIVNGYEFV 60



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; Sequence 4, Application US/09849180  
; Patent No. 6495359  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Seed Intellectual Property Law Group  
; STREET: 701 Fifth Avenue, Suite 6300  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98055  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/849,180  
; FILING DATE: 04-May-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Pepe, Jeffrey C.  
; REGISTRATION NUMBER: 46,985  
; REFERENCE/DOCKET NUMBER: 200116.402  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 568 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-849-180-4  
Query Match 100.0%; Score 2977; DB 4; Length 568;  
Best Local Similarity 100.0%; Pred. No. 2.1e-279; Indels 0; Gaps 0;  
Matches 568; Conservative 0; Mismatches 0;  
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RESULT 3  
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; Patent No. 6569666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356,643B  
; CURRENT FILING DATE: 1999-07-19  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 568  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-356-643B-8  
Query Match 100.0%; Score 2977; DB 4; Length 568;

Best Local Similarity 100.0%; Pred. No. 2.1e-279;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 2, Application US/09238373A  
; Patent No. 6187562  
; GENERAL INFORMATION:  
; APPLICANT: DUCKWORTH, DAVID MALCOLM  
; APPLICANT: GODDEN, ROBERT JAMES  
; APPLICANT: TESTA, TANIA TAMSON  
; TITLE OF INVENTION: NOVEL COMPOUNDS  
; FILE REFERENCE: GP-30034  
; CURRENT APPLICATION NUMBER: US/09/238,373A  
; CURRENT FILING DATE: 1999-01-27  
; EARLIER APPLICATION NUMBER: UK 9824026.0  
; EARLIER FILING DATE: 1998-11-03  
; EARLIER APPLICATION NUMBER: EP 98300625.5  
; EARLIER FILING DATE: 1998-01-29  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-238-373-2

Query Match 99.4%; Score 2959; DB 3; Length 568;  
Best Local Similarity 99.5%; Pred. No. 1.2e-277;  
Matches 565; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYPWQLIAWSVWVTLIIWGYEFV 60  
Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYPWQLIAWSVWVTLIIWGYEFV 60

Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYPWQLIAWSVWVTLIIWGYEFV 60  
QY 61 FQESLWSRFFKKCFKLTTRKMPIIGRKIQDKLNKTDDISKNMSFLKVDKEYVKALPSQG 120  
Db 61 FQESLWSRFFKKCFKLTTRKMPIIGRKIQDKLNKTDDISKNMSFLKVDKEYVKALPSQG 120

QY 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTIVSGEKLTELLVKAAGDFANSLPHDPDIFPG 180  
Db 121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTIVSGEKLTELLVKAAGDFANSLPHDPDIFPG 180

QY 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSSILMACACRDLAFEKGIKTEIIVAPQS 240  
Db 181 LRKIEAEIVRIACSLFNGGPDSCGCVTSGGTSSILMACACRDLAFEKGIKTEIIVAPQS 240

QY 241 AHAAFNKAASYFGMKIVRVPPLTOMEVDVVRAMRAISRNTAMLVCSSTPQPHGVDPVPE 300  
Db 241 AHAAFNKAASYFGMKIVRVPPLTOMEVDVVRAMRAISRNTAMLVCSSTPQPHGVDPVPE 300

QY 301 VAKLAVKYKIPLHVDAICLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360  
Db 301 VAKLAVKYKIPLHVDAICLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGYAPKG 360

QY 361 SSLVLYSDKKYRNQFFVDTDMQGGIVASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
Db 361 SSLVLYSDKKYRNQFFVDTDMQGGIVASPTIAGSRPGGISAACWAALMHFGENGVEAT 420

QY 421 KQIIKTARFLKSELENIGIFVFGNPSQLSIALGSRDPDIYRLSNLMTAKGNLNLQLOFP 480  
Db 421 KQIIKTARFLKSELENIGIFVFGNPSQLSIALGSRDPDIYRLSNLMTAKGNLNLQLOFP 480

QY 481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIIYAMAQTTVDNRNVAE 540  
Db 481 PSIHFCITLLHARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIIYAMAQTTVDNRNVAE 540

QY 541 LSSVFLDSLSTDTVTQSGOMNGSPKPH 568  
Db 541 LSSVFLDSLSTDTVTQSGOMNGSPKPH 568

RESULT 5  
US-09-740-369-2  
; Sequence 2, Application US/09740369  
; Patent No. 6521437  
; GENERAL INFORMATION:  
; APPLICANT: DUCKWORTH, DAVID MALCOLM  
; APPLICANT: GODDEN, ROBERT JAMES  
; APPLICANT: TESTA, TANIA TAMSON  
; TITLE OF INVENTION: NOVEL COMPOUNDS  
; FILE REFERENCE: GP-30034-D1  
; CURRENT APPLICATION NUMBER: US/09/740,369  
; CURRENT FILING DATE: 2000-12-19  
; PRIOR APPLICATION NUMBER: EP 98300625.5  
; PRIOR FILING DATE: 1998-01-29  
; PRIOR APPLICATION NUMBER: UK 9824026.0  
; PRIOR FILING DATE: 1998-11-03  
; PRIOR APPLICATION NUMBER: 09/238,373  
; PRIOR FILING DATE: 1999-01-27  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 568  
; TYPE: PRT  
; ORGANISM: HOMO SAPIENS  
US-09-740-369-2

Query Match 99.4%; Score 2959; DB 4; Length 568;  
Best Local Similarity 99.5%; Pred. No. 1.2e-277;  
Matches 565; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYPWQLIAWSVWVTLIIWGYEFV 60  
Db 1 MPSTDLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYPWQLIAWSVWVTLIIWGYEFV 60

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QY 61 FOPESLWSRFKKCFKLTQKMPILIGRKIQDKLNTKODISKMSFLKVDKEYVKALPSQG 120
DB 61 FOPESLWSRFKKCFKLTQKMPILIGRKIQDKLNTKODISKMSFLKVDKEYVKALPSQG 120
QY 121 LSSSAVLEKLEKYSMDAFQWQGRASGVYSGEELTELLVKAAGDFAWNSPLHPDIFPG 180
DB 121 LSSSAVLEKLEKYSMDAFQWQGRASGVYSGEELTELLVKAAGDFAWNSPLHPDIFPG 180
QY 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFKGIKTPRIVAPQS 240
DB 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFKGIKTPRIVAPQS 240
QY 241 AHAENKAAASYFGMKIVRVLTKMMEVDVRAWRRAISNTAMLVCSPTQPPHGVDPVPE 300
DB 241 AHAENKAAASYFGMKIVRVLTKMMEVDVRAWRRAISNTAMLVCSPTQPPHGVDPVPE 300
QY 301 VAKLAVKYKIPHLVDACLGGLIFVMEKAGVPLEHPDFRVKGVTSISADTHKYGYAPKG 360
DB 301 VAKLAVKYKIPHLVDACLGGLIFVMEKAGVPLEHPDFRVKGVTSISADTHKYGYAPKG 360
QY 361 SSLVLYSDKKYRNQYFFVDTMGGIYASPTIAGSRPGGISAACWAALMHFGNGYVEAT 420
DB 361 SSLVLYSDKKYRNQYFFVDTMGGIYASPTIAGSRPGGISAACWAALMHFGNGYVEAT 420
QY 421 KQIITARFLKSELENIKIGIFVFGNPNQSLIALGSRDPDIYRLSNLMTAKGWNLNQLOFP 480
DB 421 KQIITARFLKSELENIKIGIFVFGNPNQSLIALGSRDPDIYRLSNLMTAKGWNLNQLOFP 480
QY 481 PSIHFCITLLHARKVAIOFLKDIRESVTQIMKNPKAKTTGMGAIVAAQTTVDNRNVAE 540
DB 481 PSIHFCITLLHARKVAIOFLKDIRESVTQIMKNPKAKTTGMGAIVAAQTTVDNRNVAE 540
QY 541 LSSVFLDSLSTDTVTQGSQMGSPKXP 568
DB 541 LSSVFLDSLSTDTVTQGSQMGSPKXP 568
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RESULT 6

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US-08-939-309-2
; Sequence 2, Application US/08939309
; Patent No. 6423527
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; APPLICANT: Zhou, Jianhui
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE
; TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND
; TITLE OF INVENTION: METHODS OF USE THEREFOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/939,309
; FILING DATE: 29-SEP-1997
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: David, Maki J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 200116.402
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 2:
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 568 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-939-309-2

Query Match 85.8%; Score 2553; DB 4; Length 568;
Best Local Similarity 84.1%; Pred. No. 2.5e-238;
Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;

QY 1 MPSTDLMLKAFEPYLEIVYSTKAKYVNGHCTKYEPMQLIASVVTLLIIVGVEYF 60
DB 1 MPSTDLMLKAFEPYLEIVYSTKAKYVNGHCTKYEPMQLIASVVTLLIIVGVEYF 60
QY 61 FOPESLWSRFKKCFKLTQKMPILIGRKIQDKLNTKODISKMSFLKVDKEYVKALPSQG 120
DB 61 FOPESLWSRFKKCFKLTQKMPILIGRKIQDKLNTKODISKMSFLKVDKEYVKALPSQG 120
QY 121 LSSSAVLEKLEKYSMDAFQWQGRASGVYSGEELTELLVKAAGDFAWNSPLHPDIFPG 180
DB 121 LSSSAVLEKLEKYSMDAFQWQGRASGVYSGEELTELLVKAAGDFAWNSPLHPDIFPG 180
QY 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFKGIKTPRIVAPQS 240
DB 181 LKIEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAFKGIKTPRIVAPQS 240
QY 241 AHAENKAAASYFGMKIVRVLTKMMEVDVRAWRRAISNTAMLVCSPTQPPHGVDPVPE 300
DB 241 AHAENKAAASYFGMKIVRVLTKMMEVDVRAWRRAISNTAMLVCSPTQPPHGVDPVPE 300
QY 301 VAKLAVKYKIPHLVDACLGGLIFVMEKAGVPLEHPDFRVKGVTSISADTHKYGYAPKG 360
DB 301 VAKLAVKYKIPHLVDACLGGLIFVMEKAGVPLEHPDFRVKGVTSISADTHKYGYAPKG 360
QY 361 SSLVLYSDKKYRNQYFFVDTMGGIYASPTIAGSRPGGISAACWAALMHFGNGYVEAT 420
DB 361 SSLVLYSDKKYRNQYFFVDTMGGIYASPTIAGSRPGGISAACWAALMHFGNGYVEAT 420
QY 421 KQIITARFLKSELENIKIGIFVFGNPNQSLIALGSRDPDIYRLSNLMTAKGWNLNQLOFP 480
DB 421 KQIITARFLKSELENIKIGIFVFGNPNQSLIALGSRDPDIYRLSNLMTAKGWNLNQLOFP 480
QY 481 PSIHFCITLLHARKVAIOFLKDIRESVTQIMKNPKAKTTGMGAIVAAQTTVDNRNVAE 540
DB 481 PSIHFCITLLHARKVAIOFLKDIRESVTQIMKNPKAKTTGMGAIVAAQTTVDNRNVAE 540
QY 541 LSSVFLDSLSTDTVTQGSQMGSPKXP 567
DB 541 LSSVFLDSLSTDTVTQGSQMGSPKXP 567
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RESULT 7

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US-09-849-180-2
; Sequence 2, Application US/09849180
; Patent No. 6495359
; GENERAL INFORMATION:
; APPLICANT: Saba, Julie D.
; APPLICANT: Zhou, Jianhui
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE
; TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND
; TITLE OF INVENTION: METHODS OF USE THEREFOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: Seed Intellectual Property Law Group
; STREET: 701 Fifth Avenue, Suite 6300
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98055
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/849,180  
FILING DATE: 04-May-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Pepe, Jeffrey C.  
REGISTRATION NUMBER: 46,985  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 568 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match 85.8%; Score 2553; DB 4; Length 568;  
Best Local Similarity 84.1%; Pred. No. 2.5e-238;  
Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;  
1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGCHTKYEPWQLIANSVVTLLIVNGYEVF 60  
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61 FQPSLWSRFKKKFKLIRKMPFIIGRKIQDKLTKDDISKMSFLKVDKEYVKALPQOG 120  
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181 LRKIEAIVRIACSLFNGGPDSCGCVTSGGTESILMACKACRDLAPEGKIKTPEIVAPQS 240  
181 LRKIEAIVRMTCSLFNGGPDSCGCVTSGGTESILMACKACRDLAPEGKIKTPEIVAPES 240  
241 AHAFAFNKAASYFGMKIVRVPLTKMMEVDVAMRRRAISRNTAMLCVSTPQFPHGVDPVPE 300  
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301 VAKLAVYKIPHLVDACLGGLIVFMKAGYPLEHPDFRKGVTISADTHKYGYAPKG 360  
301 VAKLAVYKIPHLVDACLGGLIVFMKAGYPLEHPDFRKGVTISADTHKYGYAPKG 360  
361 SSLVLYSDKKYRNQYFVDTDMOGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
361 SSVVMYSNEKYRTYQFFVGADWQGVYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
421 KOIKTARFLKSELENIKGIFVGNPQLSLIALGSRDFDIYRLSNLMTAKGNLNOLOFP 480  
421 KOIKTARFLKSELENIKGIFVGNPQLSLIALGSRDFDIYRLSNLMTAKGNLNOLOFP 480  
481 PSIHFCITLLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540  
481 RSHFCTILVHTRKRVAIQFLKDIRSVTQIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540  
541 LSSVFLDSLXYSTDTVTQGSQMGSPKP 567  
541 LSSVFLDCLYTTDPTVQGNQMGSPKP 567

## RESULT 8

US-09-356-643B-6  
; Sequence 6, Application US/09356643B  
; Patent No. 6369666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.

; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356,643B  
; CURRENT FILING DATE: 1999-07-19  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 568  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-356-643B-6

Query Match 85.8%; Score 2553; DB 4; Length 568;  
Best Local Similarity 84.1%; Pred. No. 2.5e-238;  
Matches 477; Conservative 43; Mismatches 47; Indels 0; Gaps 0;  
1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGCHTKYEPWQLIANSVVTLLIVNGYEVF 60  
1 MPSTDLMLKAFEPYLEILEVYSTKAKYVNGCHTKYEPWQLIANSVVTLLIVNGYEVF 60  
61 FQPSLWSRFKKKFKLIRKMPFIIGRKIQDKLTKDDISKMSFLKVDKEYVKALPQOG 120  
61 FQPSLWSRFKKKFKLIRKMPFIIGRKIQDKLTKDDISKMSFLKVDKEYVKALPQOG 120  
121 LSSSAVLEKLEKEYSSMDAFWQEGRASGTIVYSGEEKLTTELLVKAAGDFANSLPHDIPFG 180  
121 MGTAEVLERLEKEYSSMDAFWQEGRASGTIVYSGEEKLTTELLVKAAGDFANSLPHDIPFG 180  
181 LRKIEAIVRIACSLFNGGPDSCGCVTSGGTESILMACKACRDLAPEGKIKTPEIVAPQS 240  
181 LRKIEAIVRMTCSLFNGGPDSCGCVTSGGTESILMACKACRDLAPEGKIKTPEIVAPES 240  
241 AHAFAFNKAASYFGMKIVRVPLTKMMEVDVAMRRRAISRNTAMLCVSTPQFPHGVDPVPE 300  
241 AHAFAFNKAASYFGMKIVRVPLTKMMEVDVAMRRRAISRNTAMLCVSTPQFPHGVDPVPE 300  
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361 SSLVLYSDKKYRNQYFVDTDMOGGIYASPTIAGSRPGGISAACWAALMHFGENGVEAT 420  
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421 KOIKTARFLKSELENIKGIFVGNPQLSLIALGSRDFDIYRLSNLMTAKGNLNOLOFP 480  
421 KOIKTARFLKSELENIKGIFVGNPQLSLIALGSRDFDIYRLSNLMTAKGNLNOLOFP 480  
481 PSIHFCITLLHARKRVAIQFLKDIRSVTQIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540  
481 RSHFCTILVHTRKRVAIQFLKDIRSVTQIMKNPKAKTTGMGAIYAMAQTTVDNRNVAE 540  
541 LSSVFLDSLXYSTDTVTQGSQMGSPKP 567  
541 LSSVFLDCLYTTDPTVQGNQMGSPKP 567

## RESULT 9

US-08-939-309-10  
; Sequence 10, Application US/08939309  
; Patent No. 6423527  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED AND BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue

```

CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/939,309
FILING DATE: 29-SEP-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: David, Maki J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 200116.402
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 488 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-939-309-10

Query Match 83.9%; Score 2498; DB 4; Length 488;
Best Local Similarity 85.9%; Pred. No. 4.1e-233;
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;

QY 1 MPSTDLLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIANSVWTLIVNGYEFV 60
DB 1 MPSTDLLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIANSVWTLIVNGYEFV 60
QY 61 FQPSLWSRFKKCKFKLTKRMPILGRKIQDKLNTKDDISKNSMFLKVDKEYVKALPSQG 120
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DB 121 LSSAVLEKLEYSSMDAFWQEGRASGTVSGEGLTELLVKAAGDFAWSNPLHDPDIFPG 180
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DB 241 AHAAFNKAASYFGMKIVRVPLTKMEVDVDRAMRAISRNTAMLVCSSTPPQPHGVDPVPE 300
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DB 301 VAKLAVKYKIPLHVDAACLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGAPKG 360
QY 361 SSLVLYSDKKYRNYQFFVDTDQWGGIYASPTIAGSRPGGISAACAAALMHFGNGYVEAT 420
DB 361 SSLVLYSDKKYRNYQFFVDTDQWGGIYASPTIAGSRPGGISAACAAALMHFGNGYVEAT 420

CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/939,309
FILING DATE: 29-SEP-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: David, Maki J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 200116.402
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 488 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-939-309-10

Query Match 83.9%; Score 2498; DB 4; Length 488;
Best Local Similarity 85.9%; Pred. No. 4.1e-233;
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;

QY 1 MPSTDLLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIANSVWTLIVNGYEFV 60
DB 1 MPSTDLLMLKAFEPYLEILEVYSTKAKYNGHCTKYPEWQLIANSVWTLIVNGYEFV 60
QY 61 FQPSLWSRFKKCKFKLTKRMPILGRKIQDKLNTKDDISKNSMFLKVDKEYVKALPSQG 120
DB 61 FQPSLWSRFKKCKFKLTKRMPILGRKIQDKLNTKDDISKNSMFLKVDKEYVKALPSQG 120
QY 121 LSSAVLEKLEYSSMDAFWQEGRASGTVSGEGLTELLVKAAGDFAWSNPLHDPDIFPG 180
DB 121 LSSAVLEKLEYSSMDAFWQEGRASGTVSGEGLTELLVKAAGDFAWSNPLHDPDIFPG 180
QY 241 AHAAFNKAASYFGMKIVRVPLTKMEVDVDRAMRAISRNTAMLVCSSTPPQPHGVDPVPE 300
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QY 301 VAKLAVKYKIPLHVDAACLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGAPKG 360
DB 301 VAKLAVKYKIPLHVDAACLGGLIVFMEKAGYPLEHPDFRVKGVTSISADTHKYGAPKG 360
QY 361 SSLVLYSDKKYRNYQFFVDTDQWGGIYASPTIAGSRPGGISAACAAALMHFGNGYVEAT 420
DB 361 SSLVLYSDKKYRNYQFFVDTDQWGGIYASPTIAGSRPGGISAACAAALMHFGNGYVEAT 420

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Db 354 ----- 353  
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Db 354 -----LENIGIFVFGNPNLSIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 400  
2Y 481 PSIHFCITLLHARKRVAIOFLKOIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540  
Db 401 PSIHFCITLLHARKRVAIOFLKOIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 460  
2Y 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568  
Db 461 LSSVFLDSLSTDTVTQGSQWNGSPKPH 488  
RESULT 11  
US-09-356-643B-10  
; Sequence 10, Application US/09356643B  
; Patent No. 6569666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356.643B  
; CURRENT FILING DATE: 1999-07-19  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10  
; LENGTH: 488  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-356-643B-10  
Query Match 83.9%; Score 2498; DB 4; Length 488;  
Best Local Similarity 85.9%; Pred. No. 4.1e-233;  
Matches 488; Conservative 0; Mismatches 0; Indels 80; Gaps 1;  
2Y 1 MPSTDLMLKAFEPYLEILEVYSTKANNVNGHCTKYEPMQLIANSVMTLLIVMGYEV 60  
Db 1 MPSTDLMLKAFEPYLEILEVYSTKANNVNGHCTKYEPMQLIANSVMTLLIVMGYEV 60  
2Y 61 FQPSLWSRFKKCFKLRKMP1IGRKIQDKLNKTKDDISKNNSEFLKVDKEYKALPSQG 120  
Db 61 FQPSLWSRFKKCFKLRKMP1IGRKIQDKLNKTKDDISKNNSEFLKVDKEYKALPSQG 120  
2Y 121 LSSSAVLEKLEYSSMDAFWQEGASGTVYSGEKLTELLIVKAYGDPKSNPLHPDIFPG 180  
Db 121 LSSSAVLEKLEYSSMDAFWQEGASGTVYSGEKLTELLIVKAYGDPKSNPLHPDIFPG 180  
2Y 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAEPKGIKTEIIVAPQS 240  
Db 181 LRKTEAEIVRIACSLFNGGPDSCGCVTSGGTESILMACACRDLAEPKGIKTEIIVAPQS 240  
2Y 241 AHAAPNKAASYFGHKIVRVLTKWMEVDVVRMRRAISNTAMLCVSTPQPHGVDPVPE 300  
Db 241 AHAAPNKAASYFGHKIVRVLTKWMEVDVVRMRRAISNTAMLCVSTPQPHGVDPVPE 300  
2Y 301 VAKLAVKYKIPLHVDAACLGGLIIVFMEKAGYPLEHPDFRVKGVTSISADTHK- 360  
Db 301 VAKLAVKYKIPLHVDAACLGGLIIVFMEKAGYPLEHPDFRVKGVTSISADTHK- 353  
2Y 361 SSLVLYSDKKYRNQVFFVDDTDWQGGIIVASPTIAGSRPGGISAACWAALMFGENGVTEAT 420  
Db 354 ----- 353  
2Y 421 KQIIKTARFLKSELENIGIFVFGNPNLSIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 480  
Db 354 -----LENIGIFVFGNPNLSIALGSRDFDIYRLSNLMTAKGNLNLQLOPP 400  
2Y 481 PSIHFCITLLHARKRVAIOFLKOIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 540

Db 401 PSIHFCITLLHARKRVAIOFLKOIRESVTQIMKNPKAKTTGMAIYAMAQTTVDNRNVAE 460  
2Y 541 LSSVFLDSLSTDTVTQGSQWNGSPKPH 568  
Db 461 LSSVFLDSLSTDTVTQGSQWNGSPKPH 488  
RESULT 12  
US-09-356-643B-11  
; Sequence 11, Application US/09356643B  
; Patent No. 6569666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356.643B  
; CURRENT FILING DATE: 1999-07-19  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: C. elegans  
US-09-356-643B-11  
Query Match 36.3%; Score 1082; DB 4; Length 552;  
Best Local Similarity 42.7%; Pred. No. 7e-96;  
Matches 228; Conservative 97; Mismatches 197; Indels 12; Gaps 7;  
2Y 30 VNGHCTKYEPMQLI-----AMSVVMTLLIVMGYEVFQPSLWSRFKKCFKLRKMP1IG 85  
Db 22 INDRLSRYDPVWLVAAGGTLYTVTKV---HLYRKSEDPILKRMGAYVFSLLRLKPAVR 78  
2Y 86 RKIQDKLNKTKDDISKNNSEFLKVDKEYKALPSQGSAAVLEKLEYSSMDAF-WQEGR 144  
Db 79 DKTEKLEAELKPKLIESIHKKDKDKQFISTLPAPLSQDSINELAKKYEDYTNFIDGR 138  
2Y 145 ASGTVYSGEE-KUTELLIVKAYGDPKSNPLHPDIFGLRKIEAEIVRIACSLFNGGPDSC 203  
Db 139 VSGAVYTDRAEHINLLGKIYEKAFSNPLHPDVPFGARKMEALIRMYVLNLYNGPEDSS 198  
2Y 204 GCVTSGGTESILMACACRDLAEPKGIKTEIIVAPOSAAHFNKAASYEGMKIVRVLTK 263  
Db 199 GSVTSGGTESILMACFSYRNRAHSLGIEHPVILACTATAAFDKAHLGCMRLRHVVD 258  
2Y 264 MMEVDVVRMRRAISNTAMLCVSTPQPHGVDPVPEVAKLAVKYKIPLHVDAACLGGLI 323  
Db 259 DNRVLDKEMERLIDSNVCMVLSGAPNFPSTIDPIEIAKLGKYGIPVHVDAACLGGLI 318  
2Y 324 VFMEKAGYPLEHPDFRVKGVTSISADTHKYGAPKSSLVLYSDKKYRNQVFFVDDTDWQ 383  
Db 319 PFMDAGY-LIPVDFPRNPGVTSISCDTHKYGCTPKGSSIVMYRSKELHFFQYFVSADWC 377  
2Y 384 GGIYASPTIAGSRPGGISAACWAALMFGENGVTEATKQIIKTARFLKSELENIGIFV 443  
Db 378 GGIYATPTIAGSRAGANTAVATLISFGEDEYVRCAQIVKHTMLAEKIEKIKWIPY 437  
2Y 444 GNPOLSIALGSRDFDIYRLSNLMTAKGNLNLQLOPPSIHFCITLLHARKRVAIOFLKD 503  
Db 438 GKSDVSLVAFSGNGVNIYEVSDDKMKLGNLNTLQNPAAIHLCTINQANEEVNAFAVD 497  
2Y 504 IRESVTQI-MKNPKAKTTGMAIYAMAQTTVDNRNVAELSSVFLDSLSTDTVT 556  
Db 498 LEKICEELAAKGEOKADSGVAAHYGNA-AQVPSVVDVIALYIDATYAPST 550  
RESULT 13  
US-08-939-309-6  
; Sequence 6, Application US/08939309  
; Patent No. 642327  
; GENERAL INFORMATION:



APPLICANT: Saba, Julie D.  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
TITLE OF INVENTION: METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED AND BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/939,309  
FILING DATE: 29-SEP-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: David, Maki J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 542 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-939-309-6

Query Match 33.9%; Score 1008; DB 4; Length 542;  
Best Local Similarity 38.1%; Pred. No. 1e-88;  
Matches 206; Conservative 121; Mismatches 201; Indels 12; Gaps 7;

QY 19 LEVYSTKAKNYVNGHCTKYEPEWQLIAMSVVWTLIVMGYEFVFPQESLWSRFFKKCKFKLT 78  
DB 5 LEQYHS-AKDLIFELRKFNPIVLSSTIVATVYVTLNRHMLDEMGRKLSLWTFVTV 63  
QY 79 RMPPIGRKIQDKLNTKDDISKMSFLKVDKEYKALPSQGLSSSAVLEKLEYSSMDA 138  
DB 64 KRVPFIRKMDKQNEVKDELEKSLRIVDRSTEYFTIPSHSVGRTEVLRLLAAYDDLEG 123  
QY 139 -FWQGRASGVYSGEKL--TELLVKAAGDFANSNPLHPDIFPGLRKIEAEIVRIACSL 195  
DB 124 PAFLEGRVGVAFNREDDKDEREMEYEVFGKPAWNTNPLWPKLFGVRAIMEAEVVRMCNM 183  
QY 196 FNGGPDSCGCVTSGGTESILMACKACRDLAPEKGTPEIVAPQSAHAFAFNKAASYFGMK 255  
DB 184 MNGDSETCGTSTGGISILLACLAHRNLLKRGKYTEMIVPSSVHAAPFAAECFRK 243  
QY 256 IYRVPLTKM-MEVDVRAIRRAISNTAMLCVSTPQPHGVDPVPEVAKLVKYLPHV 314  
DB 244 VRKIPVDVTFKVDLVKMAAINKTCLMLVGSANFPFGTVDIDEATGQGLGYDIPVHV 303  
QY 315 DACLGGLVFMKAGYPLEHPDFRVRKGVTSISADTHKYGAPKGSLLVLYSDKKYRNY 374  
DB 304 DACLGGLVLPFLEED---EIRYDRVPVGVSSISADSHKYGLAPKGSVLYRNKELLHN 359  
QY 375 QFTVDWQGGIYASFTIAGSPGGISACWALMHFGENGVEATKCIITARFLKSEL 434  
DB 360 QYPCDADWQGGIYASFTIAGSMGAGHIALCWAAMYLHAQEGYKANARKIVDTTRKINGL 419  
QY 435 ENIKGIFVFNQPLSLIALGSRD-FDIYRLSLNMTAKGNLNLQLOFPSPSIHFCITLLHAR 493  
DB 420 SNIKGIKQGPSDVCIWSVTNDGVLYELFRHFMKEKHQNLQLOFPAGVHIWMTNHTH 479

QY 494 KRVAIQFLKDIRSVTQIM--KNPKAKTTGMGAIVYMAOCTTVDRNMVAELSSVELDLSYS 551  
DB 480 PGLAEAFVADCRAAVEFKVSKHSESDKTSAAIYGLAUSIPDRSLVHFEFAYSIDAVYA 539

RESULT 14  
US-09-849-180-6  
Sequence 5, Application US/09849180  
Patent No. 6495359  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
Zhong, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/849,180  
FILING DATE: 04-May-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Pepe, Jeffrey C.  
REGISTRATION NUMBER: 46,985  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 542 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-849-180-6

Query Match 33.9%; Score 1008; DB 4; Length 542;  
Best Local Similarity 38.1%; Pred. No. 1e-88;  
Matches 206; Conservative 121; Mismatches 201; Indels 12; Gaps 7;

QY 19 LEVYSTKAKNYVNGHCTKYEPEWQLIAMSVVWTLIVMGYEFVFPQESLWSRFFKKCKFKLT 78  
DB 5 LEQYHS-AKDLIFELRKFNPIVLSSTIVATVYVTLNRHMLDEMGRKLSLWTFVTV 63  
QY 79 RMPPIGRKIQDKLNTKDDISKMSFLKVDKEYKALPSQGLSSSAVLEKLEYSSMDA 138  
DB 64 KRVPFIRKMDKQNEVKDELEKSLRIVDRSTEYFTIPSHSVGRTEVLRLLAAYDDLEG 123  
QY 139 -FWQGRASGVYSGEKL--TELLVKAAGDFANSNPLHPDIFPGLRKIEAEIVRIACSL 195  
DB 124 PAFLEGRVGVAFNREDDKDEREMEYEVFGKPAWNTNPLWPKLFGVRAIMEAEVVRMCNM 183  
QY 196 FNGGPDSCGCVTSGGTESILMACKACRDLAPEKGTPEIVAPQSAHAFAFNKAASYFGMK 255  
DB 184 MNGDSETCGTSTGGISILLACLAHRNLLKRGKYTEMIVPSSVHAAPFAAECFRK 243  
QY 256 IYRVPLTKM-MEVDVRAIRRAISNTAMLCVSTPQPHGVDPVPEVAKLVKYLPHV 314  
DB 244 VRKIPVDVTFKVDLVKMAAINKTCLMLVGSANFPFGTVDIDEATGQGLGYDIPVHV 303  
QY 315 DACLGGLVFMKAGYPLEHPDFRVRKGVTSISADTHKYGAPKGSLLVLYSDKKYRNY 374

Db

480 PGLAEAFVADCRAAVEFKSHKPSSESKTSEAAIYGLAQSIIPDRSLVHEFAHSYIDAVYA 539

Search completed: March 30, 2004, 06:45:00

Job time : 32 secs

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Qy

375 QFFVDTMQGGIYASPTIAGSRPGGISAACWAALMHFGENGYYEATKQIIRARFLKSEL 434

Db

360 QYFCDADWQGGIYASATMEGSRAGHNIALCWAAMLYHAQEGYKANARKIVDTTRKIRNGL 419

Qy

435 ENIKGIFVFGNPNQLSLIALGSRD-FDIYRLSNLMTAKGNLNLQLOPPPSIHFCITILLHAR 493

Db

420 SNIKIGIKQGSDDVCIVSWTTNDGVELYRPHFNKEXKHQNLGLQPPAGVHIMVTWNHTH 479

Qy

494 KRVAIQFLKDIRESVTQIM--KNPKAKTITGMGAIYAMAQTTVDNRNVAELSSVFLDSLYS 551

Db

480 PGLAEAFVADCRAAVEFKSHKPSSESKTSEAAIYGLAQSIIPDRSLVHEFAHSYIDAVYA 539

RESULT 15

US-09-356-643B-4

; Sequence 4, Application US/09356643B

; Patent No. 6569666

; GENERAL INFORMATION:

; APPLICANT: Saba, Julie D.

; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,

; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND

; TITLE OF INVENTION: METHODS OF USE THEREFOR

; FILE REFERENCE: 200116.402C1

; CURRENT APPLICATION NUMBER: US/09/356,643B

; CURRENT FILING DATE: 1999-07-19

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 542

; TYPE: PRT

; ORGANISM: C. elegans

US-09-356-643B-4

Query Match 33.9%; Score 1008; DB 4; Length 542;

Best Local Similarity 38.1%; Pred. No. 1e-83;

Matches 206; Conservative 121; Mismatches 201; Indels 12; Gaps 7;

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Db

5 LEQYHS-AKDLLIFELRKENPIVLVSSTIVATYVLTNLRHMLDEMGIKRLSTWFFTV 63

Qy

79 RQMPIIGRKIQDKLNTKDDISKNNISFLKVDKEYVKALPSQGLSSAVLEKLEYSSMDA 138

Db

64 KRYPFIRKIMDKQLNEVKDELEKSLURIDRSTETFTTIPSHSVGRTVLRLLAAYDDLEG 123

Qy

139 -FWQGRAGSTVYSGEKL--TELLVAYGDFAMGNPLHPDIFPGLRKIEAEIVRIACSL 195

Db

124 PAFLEGRVSGAVENRDKDEREMEYEEVFGKFAWTNPLWPKLFGVRIWEAEVVRMCCNM 183

Qy

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Qy

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Qy

494 KRVAIQFLKDIRESVTQIM--KNPKAKTITGMGAIYAMAQTTVDNRNVAELSSVFLDSLYS 551

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

DM nucleic - nucleic search, using sw model

Run on: March 30, 2004, 04:58:48 ; Search time 450 Seconds  
(without alignments)  
14122.617 Million cell updates/sec

Title: US-10-053-510-7  
Perfect score: 1707  
Sequence: 1 atgctagcacagactctt.....gtctccaaacccactga 1707

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2458946 seqs, 1861504846 residues

Total number of hits satisfying chosen parameters: 4917892

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1707	100.0	1707	14	US-10-286-175-3
2	1707	100.0	1707	14	US-10-197-073-3
3	1707	100.0	1707	14	US-10-053-510-7
4	1707	100.0	1707	15	US-10-348-052-7
5	1702.2	99.7	1707	14	US-10-053-510-17
6	1702.2	99.7	1707	15	US-10-348-052-17
7	1699	99.5	1707	15	US-10-348-052-23
8	1699	99.5	2130	9	US-09-740-369-1
9	1699	99.5	5741	10	US-09-967-669-3
10	1278.2	74.9	1707	14	US-10-286-175-1
11	1278.2	74.9	1707	14	US-10-197-073-1
12	1278.2	74.9	1707	14	US-10-053-510-5
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37	80.2	4.7	3162	15	US-10-348-052-12
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44	38.6	2.3	1049	14	US-10-146-731-358
45	38.6	2.3	1049	14	US-10-140-472-358

ALIGNMENTS

RESULT 1

US-10-286-175-3  
; Sequence 3, Application US/10286175  
; Publication No. US2003005922A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/286,175  
FILING DATE: 30-Oct-2002  
CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:  
NAME: Rosenman, Steven J.  
REGISTRATION NUMBER: 43,058

REFERENCE/DOCKET NUMBER: 200116.402C3  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1707 base pairs  
TYPE: nucleic acid

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, STRANDEDNESS: single
, TOPOLOGY: linear
,
, FEATURE:
,   NAME/KEY: CDS
,   LOCATION: 1..1704
,   SEQUENCE DESCRIPTION: SEQ
US-10-286-175-3

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Query Match      100.0%; Score 1707; DB 14; Length 1707;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY	1	ATGCCATCAGACAGACCTTCTGATGTTTGAAGCCCTTTGAGCCCTACTCTAGAGATTTTGGAA	60
DB	1	ATGCCATCAGACAGACCTTCTGATGTTTGAAGCCCTTTGAGCCCTACTCTAGAGATTTTGGAA	60
QY	61	GTATACTCCACAAAGCCAAAGATTATGTAAATGGACATGTGCACCAAGTATGAGCCCTGG	120
DB	61	GTATACTCCACAAAGCCAAAGATTATGTAAATGGACATGTGCACCAAGTATGAGCCCTGG	120
QY	121	CAGCTAAATTGCATGGAGTGTGGTGGAGCCCTGCTCATAGTCTGGGGATATGAGTTTGTC	180
DB	121	CAGCTAAATTGCATGGAGTGTGGTGGAGCCCTGCTCATAGTCTGGGGATATGAGTTTGTC	180
QY	181	TTCCAGCCAGAGAGTTTATGTCTCAAGTGTTTAAAAGAAATGTTTTAAGCTCACCAAGGAG	240
DB	181	TTCCAGCCAGAGAGTTTATGTCTCAAGTGTTTAAAAGAAATGTTTTAAGCTCACCAAGGAG	240
QY	241	ATGCCCATTTATGGTGTGTAAGATTCAAGACAAAGTTGAACAGACCAAGGATGATATTAGC	300
DB	241	ATGCCCATTTATGGTGTGTAAGATTCAAGACAAAGTTGAACAGACCAAGGATGATATTAGC	300
QY	301	AAGAACAATGCTATCTCCTCAAAAGTGGACAAAGAGTATGTGAAGAGCTTTACCTCCAGGGT	360
DB	301	AAGAACAATGCTATCTCCTCAAAAGTGGACAAAGAGTATGTGAAGAGCTTTACCTCCAGGGT	360
QY	361	CTGAGCTCATCTGCTGTTTTGGAGAACTTAAAGAGTACAGCTCTATGAGCCCTTCTGG	420
DB	361	CTGAGCTCATCTGCTGTTTTGGAGAACTTAAAGAGTACAGCTCTATGAGCCCTTCTGG	420
QY	421	CAAGAGGGGAGAGCCTCTGGACAGTGTACAGTGGGGAGAGAAAGCTCACTGAGCTCCTT	480
DB	421	CAAGAGGGGAGAGCCTCTGGACAGTGTACAGTGGGGAGAGAAAGCTCACTGAGCTCCTT	480
QY	481	GTGAAGGCTTATGGAGATTTTGATPGGAGTAAACCCCTTGCACTCAGATATCTTCCACAGA	540
DB	481	GTGAAGGCTTATGGAGATTTTGATPGGAGTAAACCCCTTGCACTCAGATATCTTCCACAGA	540
QY	541	CTACGCAAGATAGAGCGCAAAATTTGTGAGGATAGCTTTGCCCTGTTCTAATGGGGGACCA	600
DB	541	CTACGCAAGATAGAGCGCAAAATTTGTGAGGATAGCTTTGCCCTGTTCTAATGGGGGACCA	600
QY	601	GATTCGTGTGGATGTGTACTTCTGGGGGAAACAGAAAGCATACTCATGGCTGCAAAAGCA	660
DB	601	GATTCGTGTGGATGTGTACTTCTGGGGGAAACAGAAAGCATACTCATGGCTGCAAAAGCA	660
QY	661	TGTGGGATCTGGCCTTTTGAGAAAGGGGATCAAAACTCCAGAAATTTGGCTCCCCAAGT	720
DB	661	TGTGGGATCTGGCCTTTTGAGAAAGGGGATCAAAACTCCAGAAATTTGGCTCCCCAAGT	720
QY	721	GCCCATGCTGCATTTTAAACAAACAGCAGCTTACTTTGGGATGAAGATTTGTCGGGTCCTCA	780
DB	721	GCCCATGCTGCATTTTAAACAAACAGCAGCTTACTTTGGGATGAAGATTTGTCGGGTCCTCA	780
QY	781	TTGACGAAGATGATGAGGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGGAAACACT	840
DB	781	TTGACGAAGATGATGAGGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGGAAACACT	840
QY	841	GCCATGCTGCTGTTCTTACCCCAACAGTTTCTCTCATGCTGTAAATAGATCTGTCCTCGAA	900
DB	841	GCCATGCTGCTGTTCTTACCCCAACAGTTTCTCTCATGCTGTAAATAGATCTGTCCTCGAA	900
QY	901	GTGGCCAAAGCTGGCTGTCAAAATACAAATPACCCCTTCTATGTCGACGCTTCTCTGGGAGGC	960

ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/197,073  
FILING DATE: 15-Jul-2002  
CLASSIFICATION: <unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Urvater, Julie A.  
REGISTRATION NUMBER: 50,461  
REFERENCE/DOCKET NUMBER: 200116.402D2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 692-6031  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1707 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1704  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Query Match 100.0%; Score 1707; DB 14; Length 1707;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGCTACACAGACCTCTGATGTGAAGCCCTTGAAGCCCTTACCTAGAGATTTGGAA 60  
1 ATGCTACACAGACCTCTGATGTGAAGCCCTTGAAGCCCTTACCTAGAGATTTGGAA 60  
61 GTATCTCCACAAAGCAAGATTTATGTAATGAGCATTCACCAAGTATGAGCCCTGG 120  
61 GTATCTCCACAAAGCAAGATTTATGTAATGAGCATTCACCAAGTATGAGCCCTGG 120  
121 CAGCTAAATTCATGAGTGTCTGTGGACCTGTGTGATAGTCTGGGATATGATTTGTC 180  
121 CAGCTAAATTCATGAGTGTCTGTGGACCTGTGTGATAGTCTGGGATATGATTTGTC 180  
181 TTCAGCCAGAGAGATTTATGTCAGAGTTTAAAGAAATGTTTAAAGCTCACCGAAG 240  
181 TTCAGCCAGAGAGATTTATGTCAGAGTTTAAAGAAATGTTTAAAGCTCACCGAAG 240  
241 ATGCCCATTTATGGTCGTAAGATTCAGACAAGTTTGAACAAGCAAGGATGATATTAGC 300  
241 ATGCCCATTTATGGTCGTAAGATTCAGACAAGTTTGAACAAGCAAGGATGATATTAGC 300  
301 AAGAACATGCTATTCCTGAAAGTGAACAAGATGATGTAAGCTTACCTCCAGGCT 360  
301 AAGAACATGCTATTCCTGAAAGTGAACAAGATGATGTAAGCTTACCTCCAGGCT 360  
361 CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGAGCCCTCTGG 420  
361 CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGAGCCCTCTGG 420  
421 CAAAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCATGAGCTCTTT 480  
421 CAAAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCATGAGCTCTTT 480  
481 GTGAAGCTTATGGAGATTTTCATGGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
481 GTGAAGCTTATGGAGATTTTCATGGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
541 CTACGCAAGATAGAGCAAAATTTGAGGATAGTCTTGTCTCCCTTCAATGGGGGACCA 600  
541 CTACGCAAGATAGAGCAAAATTTGAGGATAGTCTTGTCTCCCTTCAATGGGGGACCA 600

QY 601 GATTCTGTGGATGTGTGACTTCTGGGGAAACAGAAAGCATACTCATGCTCTGCAAGCA 660  
DB 601 GATTCTGTGGATGTGTGACTTCTGGGGAAACAGAAAGCATACTCATGCTCTGCAAGCA 660  
QY 661 TGTGGGATCTGGCTTCTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 720  
DB 661 TGTGGGATCTGGCTTCTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 720  
QY 721 GCCCATGCTGCATTTAAACAAAGCAGCCAGTTACTTTTGGGATGAAAGTTGTGGGTCCCA 780  
DB 721 GCCCATGCTGCATTTAAACAAAGCAGCCAGTTACTTTTGGGATGAAAGTTGTGGGTCCCA 780  
QY 781 TTGACGAGATGATGGAGTGGATGTGAGGCAATGAGAGAGCTATCTCCAGGACACT 840  
DB 781 TTGACGAGATGATGGAGTGGATGTGAGGCAATGAGAGAGCTATCTCCAGGACACT 840  
QY 841 GCCATGCTGTCTGTTCTACCCACAGTTTCTCTCATGTTGTAATAGATCTCTGCTCTGAA 900  
DB 841 GCCATGCTGTCTGTTCTACCCACAGTTTCTCTCATGTTGTAATAGATCTCTGCTCTGAA 900  
QY 901 GTGCCAAGCTGGCTGTCAAAATACCCCTTCTCATGTTGTAATAGATCTCTGCTCTGAA 960  
DB 901 GTGCCAAGCTGGCTGTCAAAATACCCCTTCTCATGTTGTAATAGATCTCTGCTCTGAA 960  
QY 961 TTCCTCATGCTCTTATGAGAAAGCAGGATACCCACTGGAGCACCCTTTGATTTCGG 1020  
DB 961 TTCCTCATGCTCTTATGAGAAAGCAGGATACCCACTGGAGCACCCTTTGATTTCGG 1020  
QY 1021 GTGAAAGCTGTAAACAGCTTTCAGCTGACACCCCTTATGCTGAGCACCCTTTGATTTCGG 1080  
DB 1021 GTGAAAGCTGTAAACAGCTTTCAGCTGACACCCCTTATGCTGAGCACCCTTTGATTTCGG 1080  
QY 1081 TCATCATTTGTTGTTATGATGACAGAGTACAGAACTATCAGTTCTTCTGTCGATACA 1140  
DB 1081 TCATCATTTGTTGTTATGATGACAGAGTACAGAACTATCAGTTCTTCTGTCGATACA 1140  
QY 1141 GATTGGCAGGCTGCTATGCTTCCCAACCAATCGAGGCTCACGGCTCTGTCGATTT 1200  
DB 1141 GATTGGCAGGCTGCTATGCTTCCCAACCAATCGAGGCTCACGGCTCTGTCGATTT 1200  
QY 1201 AGCCAGCCTGTTGGCTGCTTGTATGTCACCTTCGGTGAGAACGGCTATGTTGAAGTACC 1260  
DB 1201 AGCCAGCCTGTTGGCTGCTTGTATGTCACCTTCGGTGAGAACGGCTATGTTGAAGTACC 1260  
QY 1261 AAACAGATCATCAAACTGCTGCTTCTCAAGTCAAGAACTGGAATATCAAAAGGATC 1320  
DB 1261 AAACAGATCATCAAACTGCTGCTTCTCAAGTCAAGAACTGGAATATCAAAAGGATC 1320  
QY 1321 TTTGTTTGGGATCCCAATTTGTCATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
DB 1321 TTTGTTTGGGATCCCAATTTGTCATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
QY 1381 TACCGACTATCAAACTGATGACTGCTAAGGGGTGGAACCTTGAACCCAGTTGCAAGTTCCCA 1440  
DB 1381 TACCGACTATCAAACTGATGACTGCTAAGGGGTGGAACCTTGAACCCAGTTGCAAGTTCCCA 1440  
QY 1441 CCCAGTATTCATTTCTGATCAGATTTACTACACGCCCGGAAACGAGTAGCTATCAATTC 1500  
DB 1441 CCCAGTATTCATTTCTGATCAGATTTACTACACGCCCGGAAACGAGTAGCTATCAATTC 1500  
QY 1501 CTAAGAGGACATTCAGAGATCTGTCACCTCAATCATGAAGATCTCTAAAGCGAAGACCA 1560  
DB 1501 CTAAGAGGACATTCAGAGATCTGTCACCTCAATCATGAAGATCTCTAAAGCGAAGACCA 1560  
QY 1561 GGAATGGGTGCATCTATGCTATGCCAGCAAACTGTTGACAGGAATATGGTTGCAGAA 1620  
DB 1561 GGAATGGGTGCATCTATGCTATGCCAGCAAACTGTTGACAGGAATATGGTTGCAGAA 1620  
QY 1621 TTTGCTCTCAGTCTTCTTGGACAGCTTGTACAGCACCACACTGTACCCAGGGCAGCCAG 1680  
DB 1621 TTTGCTCTCAGTCTTCTTGGACAGCTTGTACAGCACCACACTGTACCCAGGGCAGCCAG 1680  
QY 1681 ATGAATGGTTCTTCCAAAACCCCACTGA 1707

Db 1681 ATGAATGGTTCTCCAAACCCCACTGA 1707

RESULT 3

US-10-053-510-7

; Sequence 7, Application US/10053510

; Publication No. US20030175939A1

; GENERAL INFORMATION:

; APPLICANT: Saba, Julie D.

; APPLICANT: Fyrest, Henrik

; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,

; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND

; TITLE OF INVENTION: METHODS OF USE THEREFOR

; FILE REFERENCE: 200116.402C2

; CURRENT APPLICATION NUMBER: US/10/053,510

; CURRENT FILING DATE: 2002-01-17

; NUMBER OF SEQ ID NOS: 21

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 7

; LENGTH: 1707

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(1707)

US-10-053-510-7

Query Match 100.0%; Score 1707; DB 14; Length 1707;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCCCTAGCAGACGCTTCTGATGTTGAAGCCCTTGAGCCCTACTTAGAGATTTTCGAA 60  
DB 1 ATGCCCTAGCAGACGCTTCTGATGTTGAAGCCCTTGAGCCCTACTTAGAGATTTTCGAA 60  
QY 61 GTATAGTCTCCCAAAAGCCCAAGAAATATGTAATGACATTTGCACCAAGTATGAGCCCTGG 120  
DB 61 GTATAGTCTCCCAAAAGCCCAAGAAATATGTAATGACATTTGCACCAAGTATGAGCCCTGG 120  
QY 121 CAGCTAATTGCGATGAGTGTCTGTGGACCCCTGCTGATAGTCTGGGATATGATTTGTC 180  
DB 121 CAGCTAATTGCGATGAGTGTCTGTGGACCCCTGCTGATAGTCTGGGATATGATTTGTC 180  
QY 181 TTCACGACAGAGATTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGGAAG 240  
DB 181 TTCACGACAGAGATTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGGAAG 240  
QY 241 ATGCCCAATTATGGTCGTAAGATTTCAAGACAAAGTTGAACCAAGGATGATATTAGC 300  
DB 241 ATGCCCAATTATGGTCGTAAGATTTCAAGACAAAGTTGAACCAAGGATGATATTAGC 300  
QY 301 AAGACATGTCATCTGAAAGTGGACAAAGAGTATGTGAAGCTTTACCTCCAGGGT 360  
DB 301 AAGACATGTCATCTGAAAGTGGACAAAGAGTATGTGAAGCTTTACCTCCAGGGT 360  
QY 361 CTGAGCTCATCTGCTGTTTTGGAGAACTTAAAGGAGTACAGCTCTATGGAAGCTTTCTGG 420  
DB 361 CTGAGCTCATCTGCTGTTTTGGAGAACTTAAAGGAGTACAGCTCTATGGAAGCTTTCTGG 420  
QY 421 CAGAGGGGAGACCTCTGGACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGCTCTT 480  
DB 421 CAGAGGGGAGACCTCTGGACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGCTCTT 480  
QY 481 GTGAAGCTTATGGAGATTTTGCATGGAGTAAACCCCTGTCATCCAGATATCTTCCAGGA 540  
DB 481 GTGAAGCTTATGGAGATTTTGCATGGAGTAAACCCCTGTCATCCAGATATCTTCCAGGA 540  
QY 541 CTAGCGAAGATAGAGGAGAAATTTGAGGATAGCTTTCCCTGTTCAATGGGGACCA 600  
DB 541 CTAGCGAAGATAGAGGAGAAATTTGAGGATAGCTTTCCCTGTTCAATGGGGACCA 600  
QY 601 GATTTCGTGTGGATGTGTGACTTCTGGGGGAAACAGAAAGCATACTCATGGCTGCAAGCA 660

DB 601 GATTTCGTGTGGATGTGTGACTTCTGGGGGAAACAGAAAGCATACTCATGGCTGCAAGCA 660  
QY 661 TGTGGGATCTGGGCTTTTGAGAAAGGGATCAAAATCTCCAGAAATTTGGCTCCCAAGAT 720  
DB 661 TGTGGGATCTGGGCTTTTGAGAAAGGGATCAAAATCTCCAGAAATTTGGCTCCCAAGAT 720  
QY 721 GCCATGCTGCAATTTAAACAAAGCAGCCAGTTACTTTGGGATGAAGATTTGGGGTCCCA 780  
DB 721 GCCATGCTGCAATTTAAACAAAGCAGCCAGTTACTTTGGGATGAAGATTTGGGGTCCCA 780  
QY 781 TTGACGAAGATGATGGAGTGGATGTTGAGGGCAATGAGAAGAGCTATCTCCAGAAACAT 840  
DB 781 TTGACGAAGATGATGGAGTGGATGTTGAGGGCAATGAGAAGAGCTATCTCCAGAAACAT 840  
QY 841 GCCATGCTGCTGTTCTACCCCAACAGTTTCCCTCATGCTGATGATGATGATGATGATGAT 900  
DB 841 GCCATGCTGCTGTTCTACCCCAACAGTTTCCCTCATGCTGATGATGATGATGATGATGAT 900  
QY 901 GTGGCCAGCTGGCTGTCAAAATACAAATACCCCTTTCATGTCAGCTTGTCTGGGAGGC 960  
DB 901 GTGGCCAGCTGGCTGTCAAAATACAAATACCCCTTTCATGTCAGCTTGTCTGGGAGGC 960  
QY 961 TTCCTCATGCTCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGG 1020  
DB 961 TTCCTCATGCTCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGG 1020  
QY 1021 GTGAAAGTGTAAACAGCATTTTCCGCAACCATGATGATGATGATGATGATGATGATGATG 1080  
DB 1021 GTGAAAGTGTAAACAGCATTTTCCGCAACCATGATGATGATGATGATGATGATGATGATG 1080  
QY 1081 TCATCATTTGGTGTGATAGTACAAAGATACAGGAATCATCAGTTCTTCGTCGATACA 1140  
DB 1081 TCATCATTTGGTGTGATAGTACAAAGATACAGGAATCATCAGTTCTTCGTCGATACA 1140  
QY 1141 GATTGGCAGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200  
DB 1141 GATTGGCAGGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200  
QY 1201 AGCGCAGCTGTTGGGCTGCTTGCATGCTTGGTGGAGAACGGCTATGTTGAAGTACC 1260  
DB 1201 AGCGCAGCTGTTGGGCTGCTTGCATGCTTGGTGGAGAACGGCTATGTTGAAGTACC 1260  
QY 1261 AAACAGATCATCAAACTGCTGCTTCCCTCAAGTCAAGACTGGAATAATCAAGGCATC 1320  
DB 1261 AAACAGATCATCAAACTGCTGCTTCCCTCAAGTCAAGACTGGAATAATCAAGGCATC 1320  
QY 1321 TTTGTTTTTGGGAACTCCCAATTTGCTCACTCATTTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
DB 1321 TTTGTTTTTGGGAACTCCCAATTTGCTCACTCATTTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
QY 1381 TACCGACTATCAAACTGATGATGCTGCTAAAGGGTGGAACTTGAACCAAGTTGCAATTC 1440  
DB 1381 TACCGACTATCAAACTGATGATGCTGCTAAAGGGTGGAACTTGAACCAAGTTGCAATTC 1440  
QY 1441 CCCAGTATTCATTTCTGATCAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
DB 1441 CCCAGTATTCATTTCTGATCAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
QY 1501 CTAAAGGACATTCGAGAACTCTGTCACTCAATCATGAAGAAATCTTAAAGGCAAGACACA 1560  
DB 1501 CTAAAGGACATTCGAGAACTCTGTCACTCAATCATGAAGAAATCTTAAAGGCAAGACACA 1560  
QY 1561 GGAATGGGTGCCATCTATGCGATGCGCCAGACACTGTTGACAGGAATATGTTTGCAGAA 1620  
DB 1561 GGAATGGGTGCCATCTATGCGATGCGCCAGACACTGTTGACAGGAATATGTTTGCAGAA 1620  
QY 1621 TTGCTCTCAGTCTTCTTGGACAGCTTGTACAGCAGCCAGCTGTACCCAGGGCAGCCAG 1680  
DB 1621 TTGCTCTCAGTCTTCTTGGACAGCTTGTACAGCAGCCAGCTGTACCCAGGGCAGCCAG 1680  
QY 1681 ATGAATGGTTCTCCAAACCCCACTGA 1707



db 1681 ATGAATGGTTCTCCAAAACCCCACTGA 1707

## RESULT 4

JS-10-348-052-7

Sequence 7, Application US/10348052

Publication No. US20030219782A1

GENERAL INFORMATION:

APPLICANT: Saba, Julie D.

APPLICANT: Fyest, Henrik

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION

TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING

FILE REFERENCE: 200116.405

CURRENT APPLICATION NUMBER: US/10/348.052

CURRENT FILING DATE: 2003-01-17

NUMBER OF SEQ ID NOS: 29

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 7

LENGTH: 1707

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(1707)

JS-10-348-052-7

Query Match 100.0%; Score 1707; DB 15; Length 1707;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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2Y 1 ATGCCTAGCACAGACCTCTGATGTTGAAGCCCTTTGAGCCCTACTTAGAGATTTGGAA 60
db 1 ATGCCTAGCACAGACCTCTGATGTTGAAGCCCTTTGAGCCCTACTTAGAGATTTGGAA 60
2Y 61 GTATACTCCCAAAGCAAGAAATTAATGTAATGGACATTGACCAAGTATGAGCCCTGG 120
db 61 GTATACTCCCAAAGCAAGAAATTAATGTAATGGACATTGACCAAGTATGAGCCCTGG 120
2Y 121 CAGCTAATTCGATGGAGTCTGCTGTGACCCCTCTGATAGTCTGGGGATATGAGTTGTC 180
db 121 CAGCTAATTCGATGGAGTCTGCTGTGACCCCTCTGATAGTCTGGGGATATGAGTTGTC 180
2Y 181 TTCAGGCCAGAGAGTTTATGGTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAAGGAAG 240
db 181 TTCAGGCCAGAGAGTTTATGGTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAAGGAAG 240
2Y 241 ATGCCCATATTTGCTGTAAAGTTCAAGACAAGTTGAAACAGCAAGGATGATATTAGC 300
db 241 ATGCCCATATTTGCTGTAAAGTTCAAGACAAGTTGAAACAGCAAGGATGATATTAGC 300
2Y 301 AAGAACATGTCATTCCTGAAAGTGGAACAAAGAGTATGTGAAGCTTTACCTCCAGGGT 360
db 301 AAGAACATGTCATTCCTGAAAGTGGAACAAAGAGTATGTGAAGCTTTACCTCCAGGGT 360
2Y 361 CTGAGCTCATCTGTTTTGGAGAAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG 420
db 361 CTGAGCTCATCTGTTTTGGAGAAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG 420
2Y 421 CAAGAGGGGAGGCTCTGGAACAGTGTACAGTGGGGAGGAGAGCTCACTGAGCTCTT 480
db 421 CAAGAGGGGAGGCTCTGGAACAGTGTACAGTGGGGAGGAGAGCTCACTGAGCTCTT 480
2Y 481 GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGTCATCCAGATATCTTCCAGGA 540
db 481 GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGTCATCCAGATATCTTCCAGGA 540
2Y 541 CTAGCAAGATAGAGGAGAAATTTGAGAGATAGCTTTCCTCTGTTCAATGGGGACCA 600
db 541 CTAGCAAGATAGAGGAGAAATTTGAGAGATAGCTTTCCTCTGTTCAATGGGGACCA 600
2Y 601 GATTGCTGTGATGTGTGACTTCTGGGGGAACAGAAAGCATCTCATGGCTGCAAGCA 660
db 601 GATTGCTGTGATGTGTGACTTCTGGGGGAACAGAAAGCATCTCATGGCTGCAAGCA 660
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## RESULT 5

US-10-053-510-17

; Sequence 17, Application US/10053510

; Publication No. US2003017593A1

; GENERAL INFORMATION:

; APPLICANT: Saba, Julie D.

; APPLICANT: Fyrcst, Henrik

; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,

; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND

; TITLE OF INVENTION: METHODS OF USE THEREFOR

; FILE REFERENCE: 200116.402C2

; CURRENT APPLICATION NUMBER: US/10/053,510

; NUMBER OF SEQ ID NOS: 21

; NUMBER OF SEQ ID NOS: 21

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 17

; LENGTH: 1707

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(1707)

; US-10-053-510-17

## Query Match

Best Local Similarity 99.7%; Score 1702.2; DB 14; Length 1707;

Matches 1704; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	ATGCCCTAGCAGACCTCTCTGATGTGAAGGCTTTGAGCCCTACTTAGAGATTGGAA	60
DB	1	ATGCCCTAGCAGACCTCTCTGATGTGAAGGCTTTGAGCCCTACTTAGAGATTGGAA	60
QY	61	GTATACCTCCACAAAAGCCAAAGATTTATGTAATGACATTCACCAAGTATGAGCCCTGG	120
DB	61	GTATACCTCCACAAAAGCCAAAGATTTATGTAATGACATTCACCAAGTATGAGCCCTGG	120
QY	121	CAGCTAATTGCTAGTGTCTGTGAGCCCTGCTGATGATCTGGGATATGATTTGTC	180
DB	121	CAGCTAATTGCTAGTGTCTGTGAGCCCTGCTGATGATCTGGGATATGATTTGTC	180
QY	181	TTCCAGCCAGAGAGTTTATGTTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGGAAG	240
DB	181	TTCCAGCCAGAGAGTTTATGTTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGGAAG	240
QY	241	ATGCCCATTTTGGTGTGAAGATTCACAGCAAGTTGAACCAAGGATGATTTAGC	300
DB	241	ATGCCCATTTTGGTGTGAAGATTCACAGCAAGTTGAACCAAGGATGATTTAGC	300
QY	301	AAGACATGTCATCTCTGAAAGTGGACAAAGAGTATGTGAAGCTTACCTCCAGGGT	360
DB	301	AAGACATGTCATCTCTGAAAGTGGACAAAGAGTATGTGAAGCTTACCTCCAGGGT	360
QY	361	CTGAGCTCATCTGCTGTTTTGGAGAACTTAAGGAGTACAGCTCTATGGACGCTCTCG	420
DB	361	CTGAGCTCATCTGCTGTTTTGGAGAACTTAAGGAGTACAGCTCTATGGACGCTCTCG	420
QY	421	CAAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTACGCTCCTT	480
DB	421	CAAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTACGCTCCTT	480
QY	481	GTGAAGGCTTATGGAGATTTTTCATGGAGTAAACCCCTGCAATCAGATATCTTCCAGGA	540
DB	481	GTGAAGGCTTATGGAGATTTTTCATGGAGTAAACCCCTGCAATCAGATATCTTCCAGGA	540
QY	541	CTACGCAAGATAGAGCAGAAATTTGAGGATAGCTTTGTCCTGTTCAATGGGGACCA	600
DB	541	CTACGCAAGATAGAGCAGAAATTTGAGGATAGCTTTGTCCTGTTCAATGGGGACCA	600
QY	601	GATTTCGTGTGGATGTGACTTCTGGGGGAAACAGAAAGCATCTCATGCCCTGCAAAAGCA	660
DB	601	GATTTCGTGTGGATGTGACTTCTGGGGGAAACAGAAAGCATCTCATGCCCTGCAAAAGCA	660

QY	661	TGTCGGATCTGGCCTTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCCAAAGT	720
DB	661	TATCGGATCTGGCCTTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCCAAAGT	720
QY	721	GCCCATGCTGCATTTAAACAAAGCAGCCAGTTACTTTGGATGAAGATTTGGGGTCCCA	780
DB	721	GCCCATGCTGCATTTAAACAAAGCAGCCAGTTACTTTGGATGAAGATTTGGGGTCCCA	780
QY	781	TTGACGAAGATGATGGAGGTGGATGTGAGGCAATCAGAGAGCTATCTCCAGGACACT	840
DB	781	TTGACGAAGATGATGGAGGTGGATGTGAGGCAATCAGAGAGCTATCTCCAGGACACT	840
QY	841	CCCATGCTGCTCTTCTACCCCAACAGTTTCCCTCATGTTGTAATAGATCTGTCCCTGAA	900
DB	841	CCCATGCTGCTCTTCTACCCCAACAGTTTCCCTCATGTTGTAATAGATCTGTCCCTGAA	900
QY	901	GTGCGCAAGCTGGCTGTCAAAATACAAATACCCCTTCATGTCGACGCTTGTCTGGAGGC	960
DB	901	GTGCGCAAGCTGGCTGTCAAAATACAAATACCCCTTCATGTCGACGCTTGTCTGGAGGC	960
QY	961	TTCTCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGG	1020
DB	961	TTCTCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGG	1020
QY	1021	GTGAAAGGTGTAAACAGCATTTTTCAGCTGACACCCATAAGTATGGCTATGCCCAAAAGC	1080
DB	1021	GTGAAAGGTGTAAACAGCATTTTTCAGCTGACACCCATAAGTATGGCTATGCCCAAAAGC	1080
QY	1081	TCATCATTTGGTGTATAGTACAAAGATGACAGAACTATCAGTTCTTCGTCGATACA	1140
DB	1081	TCATCATTTGGTGTATAGTACAAAGATGACAGAACTATCAGTTCTTCGTCGATACA	1140
QY	1141	GATTGGCAGGTGCATCTATGTTTCCCAACCAATCGCAGGCTCAGGCTGTGGCATTT	1200
DB	1141	GATTGGCAGGTGCATCTATGTTTCCCAACCAATCGCAGGCTCAGGCTGTGGCATTT	1200
QY	1201	AGCCAGGCTGCTGGGCTGCTTGTGATGACCTTCGTTGAGAACGGCTATGTTGAAGTACC	1260
DB	1201	AGCCAGGCTGCTGGGCTGCTTGTGATGACCTTCGTTGAGAACGGCTATGTTGAAGTACC	1260
QY	1261	AAACAGATCATCAAAACTGCTGCTTCCCTCAAGTCAGAACTGGAATAATCAAAAGGATC	1320
DB	1261	AAACAGATCATCAAAACTGCTGCTTCCCTCAAGTCAGAACTGGAATAATCAAAAGGATC	1320
QY	1321	TTTGTGTTTGGGATCCCAATTCGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1380
DB	1321	TTTGTGTTTGGGATCCCAATTCGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1380
QY	1381	TACCGACTATCAAACTGATGACTGCTAAGGGGTGGAACTTGAACCAAGTTGCAAGTCCCA	1440
DB	1381	TACCGACTATCAAACTGATGACTGCTAAGGGGTGGAACTTGAACCAAGTTGCAAGTCCCA	1440
QY	1441	CCAGTATTCATTTCTGCAATCAGATTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1500
DB	1441	CCAGTATTCATTTCTGCAATCAGATTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1500
QY	1501	CTAAAGGACATTCAGAGATCTGTCACCTCAATCATGAAGAACTCTAAAGCGAAGACCA	1560
DB	1501	CTAAAGGACATTCAGAGATCTGTCACCTCAATCATGAAGAACTCTAAAGCGAAGACCA	1560
QY	1561	GGAATGGGTGCATCTATGCCATGCGCCAGACAACTGTTGACAGGAATATGGTTGAGAA	1620
DB	1561	GGAATGGGTGCATCTATGCCATGCGCCAGACAACTGTTGACAGGAATATGGTTGAGAA	1620
QY	1621	TTGCTCTCAGTCTTCTTGGAGCAGCTTGTACAGACCCGACACTGTACCCAGGCGAGCCAG	1680
DB	1621	TTGCTCTCAGTCTTCTTGGAGCAGCTTGTACAGACCCGACACTGTACCCAGGCGAGCCAG	1680
QY	1681	ATGAATGGTTCTCCAAAACCCCACTGA	1707
DB	1681	ATGAATGGTTCTCCAAAACCCCACTGA	1707

RESULT 6

IS-10-348-052-17  
Sequence 17, Application US/10348052  
Publication No. US20030219782A1  
GENERAL INFORMATION:

APPLICANT: Saba, Julie D.  
APPLICANT: Fyrist, Henrik  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION  
TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING  
FILE REFERENCE: 200116.405  
CURRENT APPLICATION NUMBER: US/10/348,052  
CURRENT FILING DATE: 2003-01-17  
NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 17

LENGTH: 1707

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(1707)

IS-10-348-052-17

Query Match 99.7%; Score 1702.2; DB 15; Length 1707;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1704; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

2Y	1	ATGCTAGCAGACCTTCGTGATGTTGAAGCGCTTTGAGCCCTACTTAGAGATTTGGAA	60
2b	1	ATGCTAGCAGACCTTCGTGATGTTGAAGCGCTTTGAGCCCTACTTAGAGATTTGGAA	60
2Y	61	GTATACCTCCAAAGCCAAAGATTATGTAATGGACATTTGACCAAGTATGAGCCCTGG	120
2b	61	GTATACCTCCAAAGCCAAAGATTATGTAATGGACATTTGACCAAGTATGAGCCCTGG	120
2Y	121	CAGCTAATTCGATGAGTGTGCTGTGACCCCTGCTGATGCTGAGGGAATGAGTTGTC	180
2b	121	CAGCTAATTCGATGAGTGTGCTGTGACCCCTGCTGATGCTGAGGGAATGAGTTGTC	180
2Y	181	TTCCAGCCGAGAGCTTTATGCTCAAGCTTTAAAGAAATGTTTAAAGCTCACCAGGAAG	240
2b	181	TTCCAGCCGAGAGCTTTATGCTCAAGCTTTAAAGAAATGTTTAAAGCTCACCAGGAAG	240
2Y	241	ATGCCATTTATGCTGCTGATGTTCAAGCAAGTGTGAACCAAGGATGATATTAGC	300
2b	241	ATGCCATTTATGCTGCTGATGTTCAAGCAAGTGTGAACCAAGGATGATATTAGC	300
2Y	301	AAGACATGCTATTCTGGAAGTGGACAAAGAGTATGTAAGCTTTACCTCCAGGGT	360
2b	301	AAGACATGCTATTCTGGAAGTGGACAAAGAGTATGTAAGCTTTACCTCCAGGGT	360
2Y	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG	420
2b	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG	420
2Y	421	CAAGAGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCCT	480
2b	421	CAAGAGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCCT	480
2Y	481	GTGAAGGCTTATGAGAGATTTTGCATGGAGTAAACCCCTGCTATCAGATATCTTCCAGGA	540
2b	481	GTGAAGGCTTATGAGAGATTTTGCATGGAGTAAACCCCTGCTATCAGATATCTTCCAGGA	540
2Y	541	CTACCAAGATAGAGCCAGAAATTTGTGAGGATAGTTGTTCCCTGTTCAATGGGGACCA	600
2b	541	CTACCAAGATAGAGCCAGAAATTTGTGAGGATAGTTGTTCCCTGTTCAATGGGGACCA	600
2Y	601	GATTGCTGAGTGTGCTCTTCTGGGGAACAGAAAGCATACTCATGGCTCAGAAAGCA	660
2b	601	GATTGCTGAGTGTGCTCTTCTGGGGAACAGAAAGCATACTCATGGCTCAGAAAGCA	660
2Y	661	TGTCGGGATCTGGCCCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT	720

RESULT 7

US-10-348-052-23

Db	661	TATCGGGATCTGGCCCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT	720
QY	721	GCCATGCTGCATTTAAACAAAGACGACGATTTACTTTGGGATGAAGATTTGGGGTCCCA	780
Db	721	GCCATGCTGCATTTAAACAAAGACGACGATTTACTTTGGGATGAAGATTTGGGGTCCCA	780
QY	781	TTGACGAAGATCATGAGGTGGATGTGAGGCAATGAGAGAGCTATCTCCAGGAACACT	840
Db	781	TTGACGAAGATCATGAGGTGGATGTGAGGCAATGAGAGAGCTATCTCCAGGAACACT	840
QY	841	GCCATGCTGCTGTTTACCCCAACAGTTTCTCATGAGTAAATAGATCTCTGCTCCGAA	900
Db	841	GCCATGCTGCTGTTTACCCCAACAGTTTCTCATGAGTAAATAGATCTCTGCTCCGAA	900
QY	901	GTGCCCAGCTGCTGCTCAAAATACAAATACCCCTTTCATGTCGACGCTTGTCTGGAGGC	960
Db	901	GTGCCCAGCTGCTGCTCAAAATACAAATACCCCTTTCATGTCGACGCTTGTCTGGAGGC	960
QY	961	TTCTCTCATCTCTTTATGGAGAAAGCAGATATCCCATCTGGAGACCCCATTTGATTTCCGG	1020
Db	961	TTCTCTCATCTCTTTATGGAGAAAGCAGATATCCCATCTGGAGACCCCATTTGATTTCCGG	1020
QY	1021	GTGAAAGGTGTAAACGACATTTTACGTCGACCCCAATAGTATGGCTATGCCCCAAAGGC	1080
Db	1021	GTGAAAGGTGTAAACGACATTTTACGTCGACCCCAATAGTATGGCTATGCCCCAAAGGC	1080
QY	1081	TCATCATCTGCTGTTTATAGTACAAAGAGTACAGAACTATCAGTTCTTCTGCTGATACA	1140
Db	1081	TCATCATCTGCTGTTTATAGTACAAAGAGTACAGAACTATCAGTTCTTCTGCTGATACA	1140
QY	1141	GATTCGAGGCTGGGATCTATGCTTCCCAACATCGAGGCTCACGGCTGCTGGGCAAT	1200
Db	1141	GATTCGAGGCTGGGATCTATGCTTCCCAACATCGAGGCTCACGGCTGCTGGGCAAT	1200
QY	1201	AGCGAGCTGTTGGGCTGCTTGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260
Db	1201	AGCGAGCTGTTGGGCTGCTTGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260
QY	1261	AAACAGATCATCAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1320
Db	1261	AAACAGATCATCAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1320
QY	1321	TTTGTGTTTGGGATCCCAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1380
Db	1321	TTTGTGTTTGGGATCCCAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1380
QY	1381	TACGACTATCAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1440
Db	1381	TACGACTATCAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1440
QY	1441	CCGAGTATTCATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1500
Db	1441	CCGAGTATTCATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1500
QY	1501	CTAAGGACATTCGAGAAATCTGCTCAAAATCATGAAGTCTTAAAGCGAGACCA	1560
Db	1501	CTAAGGACATTCGAGAAATCTGCTCAAAATCATGAAGTCTTAAAGCGAGACCA	1560
QY	1561	GGATGGGTGCATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1620
Db	1561	GGATGGGTGCATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1620
QY	1621	TTGTCCTCAGTCTTCTTGGGAGAGCTTGTACAGCAGCAGCTGTACCCAGGCGAGCAG	1680
Db	1621	TTGTCCTCAGTCTTCTTGGGAGAGCTTGTACAGCAGCAGCTGTACCCAGGCGAGCAG	1680
QY	1681	ATGAATGGTTCTCCAAAACCCCACTGA	1707
Db	1681	ATGAATGGTTCTCCAAAACCCCACTGA	1707

Sequence 23, Application US/10348052  
Publication No. US20030219782A1

GENERAL INFORMATION:

APPLICANT: Saba, Julie D.

APPLICANT: Fyset, Henrik

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION

TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING

FILE REFERENCE: 200116.405

CURRENT APPLICATION NUMBER: US/10/348,052

NUMBER OF SEQ ID NOS: 29

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 23

LENGTH: 1707

TYPE: DNA

ORGANISM: Homo sapiens

JS-10-348-052-23

Query Match 99.5%; Score 1699; DB 15; Length 1707;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1702; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

2Y	1	ATGCCCTACACAGACCTTCTGATGTTGAAGCCCTTGAAGCCCTACTTAGAGATTTGGAA	60
Db	1	ATGCCCTACACAGACCTTCTGATGTTGAAGCCCTTGAAGCCCTACTTAGAGATTTGGAA	60
2Y	61	GTATATCTCCACAAAGCCCAAGATTATGTAATGGACATTGCACCAAGTATGAGCCCTCG	120
Db	61	GTATATCTCCACAAAGCCCAAGATTATGTAATGGACATTGCACCAAGTATGAGCCCTCG	120
QY	121	CAGCTAAATGTCATGAGAGTGTGCTGTGACCCCTGCTGATGCTGCGGATATGATGTTGTC	180
Db	121	CAGCTAAATGTCATGAGAGTGTGCTGTGACCCCTGCTGATGCTGCGGATATGATGTTGTC	180
QY	181	TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGAG	240
Db	181	TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCACCAGAG	240
QY	241	ATGCCCATATTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG	300
Db	241	ATGCCCATATTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG	300
QY	301	RAGACATGTCATTCCTCAAGTGGACAAAGAGTATGTGAAGCTTTACCCCTCCAGGGT	360
Db	301	RAGACATGTCATTCCTCAAGTGGACAAAGAGTATGTGAAGCTTTACCCCTCCAGGGT	360
QY	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG	420
Db	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGACGCTTCTGG	420
QY	421	CAAGAGGGAGAGCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGCTCTT	480
Db	421	CAAGAGGGAGAGCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGCTCTT	480
QY	481	GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGCATCCAGATATCTTCCAGGA	540
Db	481	GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGCATCCAGATATCTTCCAGGA	540
QY	541	CTACGCAAGATAGAGCAGAAATTTGTAGAGTAGCTTTGCTCCCTGTTCAATGGGGACCA	600
Db	541	CTACGCAAGATAGAGCAGAAATTTGTAGAGTAGCTTTGCTCCCTGTTCAATGGGGACCA	600
QY	601	GATTCGTGTGGATGTGTGACTTCTGGGGGAAACAGAAAGCATACTCATGGCCCTCAAAAGCA	660
Db	601	GATTCGTGTGGATGTGTGACTTCTGGGGGAAACAGAAAGCATACTCATGGCCCTCAAAAGCA	660
QY	661	TGTCGGGATCTGGCCCTTTGAGAGGGGATCAAAACTCCAGAAATTTGGCTCCCCAAAGT	720
Db	661	TATCGGGATCTGGCCCTTTGAGAGGGGATCAAAACTCCAGAAATTTGGCTCCCCAAAGT	720
QY	721	GCCCATGCTGCAATTAACAAAGCAGCCAGTACTTCTTGGGATGAGATTTGCGGGTCCCA	780
Db	721	GCCCATGCTGCAATTAACAAAGCAGCCAGTACTTCTTGGGATGAGATTTGCGGGTCCCA	780

RESULT 8

US-09-740-369-1

; Sequence 1, Application US/09740369

; Patent No. US20020168710A1

; GENERAL INFORMATION:

; APPLICANT: DUCKWORTH, DAVID MALCOLM

; APPLICANT: GODDEN, ROBERT JAMES

QY	781	TTGACGAGATGATGAGGTGGATGTGAGGGCAATGAGAGGCTATCTCCAGGAACT	840
Db	781	TTGACGAGATGATGAGGTGGATGTGAGGGCAATGAGAGGCTATCTCCAGGAACT	840
QY	841	GCCATGCTGCTGTTTCTACCCACAGTTTCTCTCATGTTGTAATAGATCTCTCTGAA	900
Db	841	GCCATGCTGCTGTTTCTACCCACAGTTTCTCTCATGTTGTAATAGATCTCTCTGAA	900
QY	901	GTGGCAGCTGCTGCTCAAAATACAAATACCCCTTCATGTCGACGCTGCTGCGGAGC	960
Db	901	GTGGCAGCTGCTGCTCAAAATACAAATACCCCTTCATGTCGACGCTGCTGCGGAGC	960
QY	961	TTCTCATCTGCTTTATGGAGAAAGCAGATACCCACTGGAGCACCATTGATTTCCGG	1020
Db	961	TTCTCATCTGCTTTATGGAGAAAGCAGATACCCACTGGAGCACCATTGATTTCCGG	1020
QY	1021	GTGAAGGTGTAAACAGCATTTTCAGCTGACACCCCATAGTATGGCTATGCCCAAGGC	1080
Db	1021	GTGAAGGTGTAAACAGCATTTTCAGCTGACACCCCATAGTATGGCTATGCCCAAGGC	1080
QY	1081	TCATCATTTGTTGTTATAGTGAAGAAAGTACAGGAATATCATCAGTTCTTCTCGTATACA	1140
Db	1081	TCATCATTTGTTGTTATAGTGAAGAAAGTACAGGAATATCATCAGTTCTTCTCGTATACA	1140
QY	1141	GATTGGCAGGTGGCATCTATGTTCCCAACCATCGAGGCTCAGGCTGCTGGGCTT	1200
Db	1141	GATTGGCAGGTGGCATCTATGTTCCCAACCATCGAGGCTCAGGCTGCTGGGCTT	1200
QY	1201	AGGCACCTGTTGGGCTGCTTGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260
Db	1201	AGGCACCTGTTGGGCTGCTTGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1260
QY	1261	AAACAGATCATCAAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1320
Db	1261	AAACAGATCATCAAAACTGCTGCTTCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA	1320
QY	1321	TTTGTGTTTGGGATCCCAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1380
Db	1321	TTTGTGTTTGGGATCCCAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1380
QY	1381	TACGAGCTATCAAACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1440
Db	1381	TACGAGCTATCAAACTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1440
QY	1441	CCCAGTATTCATTTCTGATCAGTACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1500
Db	1441	CCCAGTATTCATTTCTGATCAGTACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1500
QY	1501	CTAAGGACATTCAGAAATCTGCTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA	1560
Db	1501	CTAAGGACATTCAGAAATCTGCTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA	1560
QY	1561	GGAATGGTGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1620
Db	1561	GGAATGGTGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1620
QY	1621	TTGCTCTCAGTCTTCTTGGAGCAGCTTGTACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG	1680
Db	1621	TTGCTCTCAGTCTTCTTGGAGCAGCTTGTACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG	1680
QY	1681	ATGAATGTTTCTCAAAACCCCACTGA	1707
Db	1681	ATGAATGTTTCTCAAAACCCCACTGA	1707

APPLICANT: TESTA, TANIA TAMSON  
TITLE OF INVENTION: NOVEL COMPOUNDS  
FILE REFERENCE: GP-30034-D1  
CURRENT APPLICATION NUMBER: US/09/740,369  
CURRENT FILING DATE: 2000-12-19  
PRIOR APPLICATION NUMBER: EP 98300625.5  
PRIOR FILING DATE: 1998-01-29  
PRIOR APPLICATION NUMBER: UK 9824026.0  
PRIOR FILING DATE: 1998-11-03  
PRIOR APPLICATION NUMBER: 09/238,373  
PRIOR FILING DATE: 1999-01-27  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1

LENGTH: 2130

TYPE: DNA

ORGANISM: HOMO SAPIENS

IS-09-740-369-1

Query Match 99.5%; Score 1699; DB 9; Length 2130;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1702; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 ATGCTAGCAGACACCTCTGATGTTGAAGGCTTTGAGCCCTTACTTAGAGATTTTGAA 60  
178 ATGCTAGCAGACACCTCTGATGTTGAAGGCTTTGAGCCCTTACTTAGAGATTTGAA 237  
61 GTATPACTCCAAAGCCAAAGATTATGTAATPGGACATTGACCAAGTATGAGCCCTGG 120  
238 GTATPACTCCAAAGCCAAAGATTATGTAATPGGACATTGACCAAGTATGAGCCCTGG 297  
121 CAGTAATTCATGGAGTGTCTGAGCCCTGCTCATAGTCTGGGGATATGAGTTTGC 180  
298 CAGTAATTCATGGAGTGTCTGAGCCCTGCTCATAGTCTGGGGATATGAGTTTGC 357  
181 TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCCAGGAG 240  
358 TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTCCAGGAG 417  
241 ATGCCCATATGCTGCTAAGATTCAGACAGTGTGAACAGACCAAGATATATAGC 300  
418 ATGCCCATATGCTGCTAAGATTCAGACAGTGTGAACAGACCAAGATATATAGC 477  
301 AAGAACATGCTATCTGCTGAAAGTGGACAAAGATGATGTGAAGCTTACCTCCAGG 360  
478 AAGAACATGCTATCTGCTGAAAGTGGACAAAGATGATGTGAAGCTTACCTCCAGG 537  
361 CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGAGCCCTTCTGG 420  
538 CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGAGCCCTTCTGG 597  
421 CAAGAGGGAGAGCCTCTGGACAGTGTACAGTGGGGAGAGAGCTCACTGAGCTCCTT 480  
598 CAAGAGGGAGAGCCTCTGGACAGTGTACAGTGGGGAGAGAGCTCACTGAGCTCCTT 557  
481 GTGAAGGCTTATGGAGATTTTGCAAGAGTAAACCCCTGTCATCCAGATATCTTCCAG 540  
658 GTGAAGGCTTATGGAGATTTTGCAAGAGTAAACCCCTGTCATCCAGATATCTTCCAG 717  
541 CTACGAGATAGAGGAGAAATTTGAGGATAGCTTGTCCCTGTTCAATGGGGAGCA 600  
718 CTACGAGATAGAGGAGAAATTTGAGGATAGCTTGTCCCTGTTCAATGGGGAGCA 777  
601 GATTCTGTGGATGTGACATTTCTGGGGAGCAAGAAAGCACTACTATGCTGCTGCAAG 660  
778 GATTCTGTGGATGTGACATTTCTGGGGAGCAAGAAAGCACTACTATGCTGCTGCAAG 837  
661 TGTCCGGATCTGGCCCTTTGAGAGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 720  
838 TATCCGGATCTGGCCCTTTGAGAGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 897  
721 GCCCATGTGATTTTAAACAAAGCAGGATTTACTTTGGGATGAAGATTTGCGGCTCCCA 957

898 GCCCATGTGATTTTAAACAAAGCAGCAGATTACTTTGGGATGAAGATTTGCGGGTCCCA 957  
781 TTGAGAAAGATGATGAGGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGAACT 840  
958 TTGAGAAAGATGATGAGGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGAACT 1017  
841 GGCATGCTGCTGCTGTTTCTAAGCCACAGTTTCTCATGGTGAATAGATCTGCTCCCTGAA 900  
1018 GGCATGCTGCTGCTGTTTCTAAGCCACAGTTTCTCATGGTGAATAGATCTGCTCCCTGAA 1077  
901 GTGGCCAAAGCTGCTGCTCAAAATACAAATACCCCTTCAATGTCGACGCTTGTCTGGAGGC 960  
1078 GTGGCCAAAGCTGCTGCTCAAAATACAAATACCCCTTCAATGTCGACGCTTGTCTGGAGGC 1137  
961 TTCTCATCTGCTTCTTATGGAGAAAGCAGATACCCACTGGAGACCCCAATTTGATTTCCGG 1020  
1138 TTCTCATCTGCTTCTTATGGAGAAAGCAGATACCCACTGGAGACCCCAATTTGATTTCCGG 1197  
1021 GTGAAAGGTGTAACAGAGATTTCACTGACACCCCAATAGTATGGCTATGCCCCCAAGGC 1080  
1198 GTGAAAGGTGTAACAGAGATTTCACTGACACCCCAATAGTATGGCTATGCCCCCAAGGC 1257  
1081 TCATCATCTGCTGTTGATGACAAAGATGACAGAACTATCAGTTCTTCTGTCGATACA 1140  
1258 TCATCATCTGCTGTTGATGACAAAGATGACAGAACTATCAGTTCTTCTGTCGATACA 1317  
1141 GATTGGCAGGTTGGCATCTATGCTTCCCAACATCGCAGGCTCACGGCCTGGTGGCAAT 1200  
1318 GATTGGCAGGTTGGCATCTATGCTTCCCAACATCGCAGGCTCACGGCCTGGTGGCAAT 1377  
1201 AGCGAGCCTGTTGGCTGCTTGAATGCACTTTCGGTGAGAACGGCTATGTTGAAGCTACC 1260  
1378 AGCGAGCCTGTTGGCTGCTTGAATGCACTTTCGGTGAGAACGGCTATGTTGAAGCTACC 1437  
1261 AATACATCATCAAACTGCTGCTTCCCTCAAGTCAGAACTGGAATAATCAAGAGCATC 1320  
1438 AATACATCATCAAACTGCTGCTTCCCTCAAGTCAGAACTGGAATAATCAAGAGCATC 1497  
1321 TTTGTTTGGGAATCCCAATTTGCTCACTTCTGCTGGATCCCGTGAATTTGACATC 1380  
1498 TTTGTTTGGGAATCCCAATTTGCTCACTTCTGCTGGATCCCGTGAATTTGACATC 1557  
1381 TACCGATATCAAACTGATGATGCTGCTAGGGTGGAACTTGAACAGTTCAGTTCCCA 1440  
1558 TACCGATATCAAACTGATGATGCTGCTAGGGTGGAACTTGAACAGTTCAGTTCCCA 1617  
1441 CCAGATATTCATTTCTGCTCACTTACACGCGCCGGAACAGAGTAGCTATACAATTC 1500  
1618 CCAGATATTCATTTCTGCTCACTTACACGCGCCGGAACAGAGTAGCTATACAATTC 1677  
1501 CTAAAGGACATTCGAGAACTGCTCACTCAAAATCATGAAGATTCCTAAAGCGAGACCA 1560  
1678 CTAAAGGACATTCGAGAACTGCTCACTCAAAATCATGAAGATTCCTAAAGCGAGACCA 1737  
1561 GGAATGGTCCCATCTATGCTAGGCGCCAGACAACTGTTGACAGAAATATGTTTGCAGAA 1620  
1738 GGAATGGTCCCATCTATGCTAGGCGCCAGACAACTGTTGACAGAAATATGTTTGCAGAA 1797  
1621 TTGTCCTCAGTCTTCTTGGACAGCTTGTACAGCCGACACTGTCAACCAGGGCAGCCAG 1680  
1798 TTGTCCTCAGTCTTCTTGGACAGCTTGTACAGCCGACACTGTCAACCAGGGCAGCCAG 1857  
1681 ATGAATGTTTCTCAAAACCCCACTGA 1707  
1858 ATGAATGTTTCTCAAAACCCCACTGA 1884

RESULT 9  
US-09-967-669-3  
; Sequence 3, Application US/09967669  
; Publication No. US20030092650A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett

APPLICANT: Susan M. Freier  
TITLE OF INVENTION: ANTISENSE MODULATION OF SPHINGOSINE-1-PHOSPHATE LYASE EXPRESSION  
FILE REFERENCE: R5-0259  
CURRENT APPLICATION NUMBER: US/09/967,669  
CURRENT FILING DATE: 2001-09-28  
NUMBER OF SEQ ID NOS: 90  
SEQ ID NO 3  
LENGTH: 5741  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
US-09-967-669-3

Query Match 99.5%; Score 1699; DB 10; Length 5741;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1702; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 ATGCTACACAGACCTTCTGATCTGAAGCCCTTTCAGCCCTACTTAGAGATTTTGGAA 60  
DB 201 ATGCTACACAGACCTTCTGATGTTGAAGCCCTTTCAGCCCTACTTAGAGATTTTGGAA 260  
QY 61 GTATACCTCCAAAAAGCCAAAGATTTATGTAATGGACATTCACCAAGTATGAGCCCTGG 120  
DB 261 GTATACCTCCAAAAAGCCAAAGATTTATGTAATGGACATTCACCAAGTATGAGCCCTGG 320  
QY 121 CAGCTAAATGCGATGAGTGTGTGTGACCCCTGCTGATGATCTGGGATATGATTTGTC 180  
DB 321 CAGCTAAATGCGATGAGTGTGTGTGACCCCTGCTGATGATCTGGGATATGATTTGTC 380  
QY 181 TTCCAGCCAGAGATTTATGTTCAAGGTTTAAAAGAAATGTTTAAAGCTCACCAGGAAG 240  
DB 381 TTCCAGCCAGAGATTTATGTTCAAGGTTTAAAAGAAATGTTTAAAGCTCACCAGGAAG 440  
QY 241 ATGCCCATTTTGGTCGTAAGATTCACAGCAAGTTGAACAGACCAAGGATGATATTAGC 300  
DB 441 ATGCCCATTTTGGTCGTAAGATTCACAGCAAGTTGAACAGACCAAGGATGATATTAGC 500  
QY 301 AAGAACATGTCATCTGAAAGTGACAAAGAGTATGTGAAGGCTTTACCCCTCCAGGGT 360  
DB 501 AAGAACATGTCATCTGAAAGTGACAAAGAGTATGTGAAGGCTTTACCCCTCCAGGGT 560  
QY 361 CTGAGCTCATCTGCTTTTGGAGAACTTAAGAGATGACAGTCTATGAGCCCTTCTGG 420  
DB 561 CTGAGCTCATCTGCTTTTGGAGAACTTAAGAGATGACAGTCTATGAGCCCTTCTGG 620  
QY 421 CAGAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGTCTT 480  
DB 621 CAGAGGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCAGTGAAGTCTT 680  
QY 481 GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGCAATCCAGATATCTTCCAGGA 540  
DB 681 GTGAAGGCTTATGGAGATTTTGCATGGAGTAAACCCCTGCAATCCAGATATCTTCCAGGA 740  
QY 541 CTACGCAAGATAGAGCAGAAATTTGAGGATAGCTTCTCCCTGTCATTAAGGGGAGCA 600  
DB 741 CTACGCAAGATAGAGCAGAAATTTGAGGATAGCTTCTCCCTGTCATTAAGGGGAGCA 800  
QY 601 GATTCTGTGGATGTGTGATCTTCTGGGGGAAACAGAAAGCATCTCATGGCTGCAAGCA 660  
DB 801 GATTCTGTGGATGTGTGATCTTCTGGGGGAAACAGAAAGCATCTCATGGCTGCAAGCA 860  
QY 661 TGTGCGGATCTGCCCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 720  
DB 861 TATCGGGATCTGCCCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 920  
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DB 921 GCCCATCTGCTATTAAACAAAGCAGCAGTACTTTGGGATGAAGATTTGCGGGTCCCA 980  
QY 781 TTGACGAAGATGATGAGGTGATTTGAGGGGCAATGAGAGGCTATCTCCAGGAGCACT 840  
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QY 841 GCCATGCTGCTGTTCTTCTACCCACAGTTTCTCATGTTAATAGATCCTGTCCTGAA 900  
DB 1041 GCCATGCTGCTGTTCTTCTACCCACAGTTTCTCATGTTAATAGATCCTGTCCTGAA 1100  
QY 901 GTGCCAAGCTGCTGCTCAAAATACAAAATACCCCTTCTATGTCAGAGCTTGTCTGGAGGC 960  
DB 1101 GTGCCAAGCTGCTGCTCAAAATACAAAATACCCCTTCTATGTCAGAGCTTGTCTGGAGGC 1160  
QY 961 TTCTCATGCTCTTTATGAGAAAGCAGGATACCCACTGGAGCACCATTGATTTCCGG 1020  
DB 1161 TTCTCATGCTCTTTATGAGAAAGCAGGATACCCACTGGAGCACCATTGATTTCCGG 1220  
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QY 1081 TCATCATTTGTTGATAGTGAAGAAGTACAGGAATCATCAGTTCTCTCGATACA 1140  
DB 1281 TCATCATTTGTTGATAGTGAAGAAGTACAGGAATCATCAGTTCTCTCGATACA 1340  
QY 1141 GATTGGCAGGCTGTCATCTATGCTTCCCAACCATCGCAGGCTCAGCGCTCGTGGCATT 1200  
DB 1341 GATTGGCAGGCTGTCATCTATGCTTCCCAACCATCGCAGGCTCAGCGCTCGTGGCATT 1400  
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DB 1461 AAAAGAGATCATCAAACTGCTGCTTCCCAACCATCGCAGGCTCAGCGCTCGTGGCATT 1520  
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DB 1521 TTTGTTTTTGGGAAATCCCAATTTGTCATCTTCTGCTGCGGATCCCGTGTATTTGACATC 1580  
QY 1381 TACCGATCATCAAACTGCTGCTTAAAGGTTGGAACCTTGAACAGTTGCAAGTTCCCA 1440  
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DB 1821 TTGTCCTCAGTCTTCTGGAGAGCTTGTACAGCAGCAGACTGTCCAGGGCAGCCAG 1880  
QY 1681 ATGAATGGTTCTCCAAAACCCCACTGA 1707  
DB 1881 ATGAATGGTTCTCCAAAACCCCACTGA 1907

RESULT 10  
US-10-286-175-1  
; Sequence 1, Application US/10286175  
; Publication No. US2003005992A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:



ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/286,175  
FILING DATE: 30-Oct-2002  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:

NAME: Rosenman, Steven J.  
REGISTRATION NUMBER: 43,058  
REFERENCE/DOCKET NUMBER: 200116.402C3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031

```

***** INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
    LENGTH: 1707 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: single
    TOPOLOGY: linear
FEATURE:
    NAME/KEY: CDS
    LOCATION: 1..1704
    SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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Query Match 74.9%; Score 1278.2; DB 14; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

1	ATGCTAGCACAGACCTTCTGATGTTTGAAGCCCTTGTAGCCCTACTCTAGAGATTTTGAA	60
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1	ATGCCGGAAACCGACCTCCCTCAAGCTGAAGGATCTCGAGCCCTATTTTGGAGATTTTGAA	60
Db		
61	GTATACTCCACAAAGCCAAAGATTATGTAAATGGACATTGCACCAAGTATGAGSCCTGG	120
QY		
61	TCTTATTCACAAAGCCAAAGATTATGTGAATGGATATTGCACCAATATGAGSCCTGG	120
Db		
121	CAGCTAAATTGCATGAGTGTCTGTGTGACCCCTGCTGATAGTCTGGGGATATGAGTTTCTC	180
QY		
121	CAGCTCATTTGGCGTGGAGTGTCTGTGTACTCTGCTGATAGTCTGGGTGTATGAGCTTATC	180
Db		
181	TTCCAGGCCAGAGAGTTTATGTGTCAAGGCTTTAAAAAGAAATGTTTTAAGCTCACCGAGAG	240
QY		
181	TTCCAGGCCAGAGAGTTTATGTGTCTCGGTTTTAAAAAAAATTAATTTAAGCTTATCAGGAAG	240
Db		
241	ATGCCCATTAATTGGTCGTAAAGATTCAAGACAGTTGNAACAGACCAGAGATGATATTAGC	300
QY		
241	ATGCCCATTAATTGGACGTAAAGATCGAACAACAGGTGAGCAAGCCAAAGAGATCTTGTCT	300
Db		
301	AAGAACAATGTCTAATTCCTCAAAAGTGGCAAAAGAGTATGTGAAAGCTTTACCTCTCCAGAGT	360
QY		
301	AAGAACAATGCCATTCTTAAAGTGGCAACAGGATTATGTGAAAACTCTGCCTCTCAGGGT	360
Db		
361	CTGAGCTCATCTGTGTTTTTGGAGAACTTAAAGAGTACAGCTCTATGAGACGCTTCTGG	420
QY		
361	ATGGGCACAGCTGAGGTTCTGAGAGACTCAAGGAGTACAGCTCCATGATGGTTCTCTGG	420
Db		
421	CAAGAGGGAGAGCCTCTGGAAACAGTGTACAGTGGGGAGGAGAGCTCACTGAGCTCTTT	480
QY		
421	CAAGAAGGGAAGACCTCAGAGCTGTGTACAAATGGGGAACCGAAGCTCACGAGTGCTGT	480
Db		
481	GTGAGGCTTTATGGAGATTTTGCATGGAGTAAACCCCTCGCATCGAGATATCTTCCAGGA	540
QY		
481	GTGACGGCTTATGGAGATTCACTGGAGCAATCCACTGCATCCAGATATTTCCCTGGA	540
Db		

QY 1621 TTGCTCTCAGTCTTCTTGACAGCTGTGTACACACCCGACACTGTACCCAGGGCAGCCAG 1680  
DB 1621 ATATCTCGTCTTCTTGAGCTGCTTTATCTAGGACCCCGTACTCAGGGCAACAG 1680  
QY 1681 ATGAATGGTTCTCCAAACCCCACTGA 1707  
DB 1681 ATGAACGGTTCTCCAAAGCCCGCTGA 1707

## RESULT 11

US-10-197-073-1  
; Sequence 1, Application US/10197073  
; Publication No. US20030166897A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA: US/10/197,073  
APPLICATION NUMBER: US/10/197,073  
FILING DATE: 15-Jul-2002

CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:

NAME: Urvater, Julie A.  
REGISTRATION NUMBER: 50,461  
REFERENCE/DOCKET NUMBER: 200116.402D2  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:

LENGTH: 1707 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

## FEATURE:

NAME/KEY: CDS  
LOCATION: 1..1704  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-10-197-073-1

Query Match 74.9%; Score 1278.2; DB 14; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

QY 1 ATGCTAGACACAGCTTCTGATGTTGAAGGCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
DB 1 ATGCCGGAACCCAGCTCTCAAGCTGAAGACTTCGAGCCTTATTGGAGATTTGGA 60  
QY 61 GTATCTCCAAAGCCAGAAATTATGAATGGAATGCAACCAAGATGAGCCCTGG 120  
DB 61 TCTATTCCAAAGCCAGAAATTATGAATGGAATTTGCAACCAATATGAGCCCTGG 120  
QY 121 CAGCTAATTCAGTGGATGTCGTCGACCCCTGATAGTCTGGGGATATGAGTTTCTC 180  
DB 121 CAGCTAATTCGCTGGATGTCCTGTGATCTCTGATCTGCTGATCTGCTGATCTGATC 180  
QY 181 TTCAGCCAGAGAGTTTATGCTCAAGGTTTAAAGAAATGTTTAAAGCTACCAAGGA 240

DB 181 TTCAGCCAGAGAGTTTATGCTCTGGTTTAAAAAAATTTATTTAAGCTTATCAGGAAG 240  
QY 241 ATGCCCATTTATGCTCTGAAGATTCAAGACAAGATTGAACAAGACCAGGATGATATTAGC 300  
DB 241 ATGCCCATTTATGACCGTAAGATCGRAACAACAGGTGAGCAAGACCAAGAGGATCTTGT 300  
QY 301 AAGAACATGTCATTTCTGAAAGTGGACAAAAGATATGTGAAGCTTTACCTCCAGGCT 360  
DB 301 AAGAACATGTCATTTCTGAAAGTGGACAAAAGATATGTGAAGCTTTACCTCCAGGCT 360  
QY 361 CTGAGCTCATCTGCTGTTTGGAGAACTTTAAGGAGTACAGCTCTTATGGACGCTTCTGG 420  
DB 361 ATGGCACAGCTGAGGTTCTGGAGAGACTCAAGGATACAGCTCCATGGATGTTCTCTGG 420  
QY 421 CAAGAGGGAGAGCTCTGGAACAGTGTACAGTGGGGAGAGAGCTCACTGAGCTTCTT 480  
DB 421 CAAGAGGGAGAGCTCTGAGAGCTGTGTACAATGGGGAAACCGAAGCTCAGGAGCTGCTG 480  
QY 481 GTGAAGGCTTATGAGATTTTGCATGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
DB 481 GTGCAAGGCTTATGAGATTTTGCATGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
QY 541 CTACGCAAGATAGAGGAGAAATTTGAGGATAGCTTTTCCCTGTTCAATGGGGAGCA 600  
DB 541 TTGCGGAAAGTTAGAGGAGAAATCGTTAGGATGACTTTTCCCTCTTCAATGGGGAGCA 600  
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DB 661 TACCGGACTTTGGCTTTAGAGAAGGGATCAAACTCCAGAAATTTGGTCTCCCAAGT 720  
QY 721 GCCCATGCTGATTTAACAAGACAGCAGTTACTTTGGGATGAAGATTGTGCGGGTCCCA 780  
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QY 781 TTGACGAAAGATGATGGAGGTGATGTGAGGCGCAATGAGAAGAGCTATCTCCAGAACAT 840  
DB 781 CTGAAAAAGAACATGGAGGTGATGTGAGGCGCAATGAGAAGAGCTATCTCCAGAACAT 840  
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DB 841 GCTATGCTGGTCTGTTTACCCACAGTTTCTCATGCTGATGATAGATCTCTTCCCTGAA 900  
QY 901 GTGGCCAAAGCTGGCTGTCAAAATACAAATACCCCTTTCATGTGACAGCTTGTCTGGAGGC 960  
DB 901 GTGGCCAAAGTTAACTGTGATATAAAATCCACTCCATGTGATGCTTGTCTGGGGGC 960  
QY 961 TTCCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCATTTGATTTCCGG 1020  
DB 961 TTCCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGAACCATTTGATTTCCGG 1020  
QY 1021 GTGAAGGTGTAAACAGCATTTCAAGCTGACACCCATTAAGTATGGCTATGCCCAAGGC 1080  
DB 1021 GTGAAGGTGTGACAGCATTTCAAGCTGACACCATTAAGTATGGCTATGCCCAAGGC 1080  
QY 1081 TCATCATTTGGTGTATAGTGAAGAGTACAGGAATATCAAGTCTTCTGTCGATACA 1140  
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QY 1141 GATTCGAGGGTGGCATCTATGCTTCCCAACCATTCGAGGCTCAGCGCTGTGGGCAAT 1200  
DB 1141 GATTCGAGGGTGGCATCTATGCTTCCCAACCATTCGAGGCTCAGCGCTGTGGGCAAT 1200  
QY 1201 AGCGCAGCTGTTGGGCTGCTTGTATGACCTTCGGTGAAGACGGCTATGTTGAAGCTACC 1260  
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QY 1261 AAACAGATCATCAAACTGCTGCTTCTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1320  
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QY 1321 TTTGTTTTTGGGAATCCCAATTCCTCACTGCTCTGGGATCCCGTGATTTTGACATC 1380  
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QY 1381 TACCGACTATCAAACTGATGACTGTGTAAGGGTGGAACTTGAAACCAAGTTGCAAGTTCCCA 1440  
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QY 1441 CCCAGTATTCATTTCTGATCACAATTAATCAACCCCGGAAACGAGTAGCTATACAAATTC 1500  
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RESULT 12  
US-10-053-510-5  
; Sequence 5, Application US/10053510  
; Publication No. US20030175939A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: Eyrat, Henrik  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C2  
; CURRENT APPLICATION NUMBER: US/10/053,510  
; CURRENT FILING DATE: 2002-01-17  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 1707  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)...(1707)  
US-10-053-510-5

Query Match 74.9%; Score 1278.2; DB 14; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

QY 1 ATGCTAGCACAGACCTCTGATGTTGAAGGCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
DB 1 ATGCCGGAAACCGACCTCTCAAGCTGAAGGACTTCGAGCCCTATTGGAGATTTGGAA 60  
QY 61 GTATACTCCCAAAAGCCAAAGAAATATGTAATGACATTCGACCAAGATGAGCCCTGG 120  
DB 61 TCATTATCCCAAAAGCCAAAGAAATATGTAATGATATATGACCAAAATATGAGCCCTGG 120  
QY 121 CAGCTAATTCATGAGTGTCTGTGGACCTCGCTAGCTAGCTGCGGATAGTTGCT 180  
DB 121 CAGCTCAATTCGGTGGAGTGTCTGTGTACTCTGCTGATGATGCTGGGTGTAGCTTATC 180  
QY 181 TTCAGCCAGAGAGTTATGTTGCTCAAGGTTTAAAGAAATATTTTAAGCTCACCAGGAAG 240  
DB 181 TTCAGCCAGAGAGTTATGTTGCTCGGTTTAAAGAAATATTTTAAGCTTATCAGGAAG 240

QY 241 ATGCCATTATTGTCGTAAAGATTCAAGACAAGTTGAACAAGACCAAGGATGATATTAGC 300  
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QY 841 GCCATGCTGCTGTTCTTACCCACAGTTTCTTCATGCTGATAGATCTCTGCTCCCTGAA 900  
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QY 1141 GATTCGAGGCTGGCATCTATGCTTCCCAACCATCCAGCTCACGCGCTGGTGGCAT 1200  
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QY 1141 GATTCGAGGCTGGCATCTATGCTTCCCAACCATCCAGCTCACGCGCTGGTGGCAT 1200  
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QY 1201 AGCGAGGCTGTGGGCTGCCCTTGTGATGACCTCGTGGAGAACCGGCTATGTTGAGCTACC 1260  
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QY 1261 AAAAGATATCAAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAGGATC 1320  
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QY 1261 AAAAGATATCAAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAGGATC 1320  
DB |||||

QY 1321 TTGTTTGGGATCCCAATTTGTCACCTCATGCTCTGGGATCCCGTATTTGACATC 1380  
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QY 1561 GGAATGGGTGCCATCTATCCCATGCCAGACAACTGTTGACAGGAATATGTTTGCAGAA 1620  
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QY 1621 TTGTCCTCAGTCTTCTTGACAGCTTGTACAGCACCGACATGTCACCCAGGGAGCCAG 1680  
DB 1621 ATATCTCTCGTCTTCTTGACTGCTTTATATCTACGGACCCCGTACTCAGGGCAACGAG 1680  
QY 1681 ATGAATGGTCTCCAAACCCCACTGA 1707  
DB 1681 ATGAACGGTTCTCCAAAGCCCGCTGA 1707

RESULT 13  
US-10-348-052-5  
; Sequence 5, Application US/10348052  
; Publication No. US20030219782A1  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: Fyrist, Henrik  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE MODULATION  
; TITLE OF INVENTION: OF SPHINGOLIPID METABOLISM AND/OR SIGNALING  
; FILE REFERENCE: 200116.405  
; CURRENT APPLICATION NUMBER: US/10/348.052  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 1707  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)...(1707)  
US-10-348-052-5

Query Match 74.98; Score 1278.2; DB 15; Length 1707;  
Best Local Similarity 84.38; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

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DB 121 CAGCTAATTTGATGGAGTCTGTTGACCCCTGCTGATAGTCTGGGATATGAGTTTGT 180  
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DB 181 TTCAGCCAGAGATTTATGTCAGGTTTAAAGAAATTTTAAAGCTTATCAGAGAG 240  
QY 241 ATGCCATTATTGGTCTGAAGATTCAAGACAAGTTGAACCAAGGATGATATTAGC 300

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DB 601 GATTCGCTGAGTGTGACTTCTGGGGAAACAGAAAGCATCTGATGAGCTCTGCGCTGCAAGCA 660  
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DB 661 TACCGGGAATTTGGCTTTAGAGAGGGGATCAAACTCCAGAAATTTGGCTTCCCGAGAT 720  
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DB 841 GCTATGCTGCTGTTTACCCCAAGTTTCTCATGTTGTAATGATCTCTGCTCCCGAA 900  
QY 901 GTGGCCAGCTGCTGCTGTAATGACAAATACAAATACCCCTTCAATGTCAGCTTGTCTCGGAGGC 960  
DB 901 GTGGCCAGCTTAACTGTGATATATAATCCCACTTCCATGTGATGCTTGTCTCGGAGGC 960  
QY 961 TTCTCATCTCTTTATGGAGAAAGCAGGATACCCACTGGAGAACCCATTTGATTTCCGG 1020  
DB 961 TTCTCATTTGCTCTTATGGAGAAAGCAGGATACCCACTGGAGAACCCATTTGATTTCCGG 1020  
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DB 1021 GTGAAAGGTGTAACAGCATTTTACCTGACATTAAGTATGCTATGCCCAAGGC 1080  
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DB 1081 TCATCATCTGTTGTTGATGACAAAGATGACAGAACTATCAGTTCTCTCGTATACA 1140  
QY 1141 GATTTGCAAGGTGGCATCTATGCTTCCCAACCATTCGAGGCTCACGCCCTGGTGGCAT 1200  
DB 1141 GACTGCAAGGTGGCATCTATGCTTCCCAACCATTCGAGGCTCACGCCCTGGTGGCAT 1200  
QY 1201 AGCGAGCTGTTGGCTGCTGCTGATGACCTTGGTGAAGACGGCTATGTTGAAGTACC 1260  
DB 1201 ATTGCAAGCTTGGGCGGCTTGTGATGCTTGGTGAAGACGGCTATGTTGAAGTACC 1260  
QY 1261 AAACAGATCATCAAACTGCTCGCTTCTCAAGTCAGAACTGGAATAATCAAGGCAATC 1320  
DB 1261 AAACAGATCATCAAACTGCTCGCTTCTCAAGTCAGAACTGGAATAATCAAAACATC 1320  
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## RESULT 14

US-10-286-175-9  
 ; Sequence 9, Application US/10286175  
 ; Publication No. US20030059922A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Saba, Jianhui  
 ; Zhou, Jianhui  
 ; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATIDYLTRANSFERASE AND MODULATING AGENTS AND  
 ; METHODS OF USE THEREFOR  
 ; NUMBER OF SEQUENCES: 10  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Seed Intellectual Property Law Group  
 ; STREET: 701 Fifth Avenue, Suite 6300  
 ; CITY: Seattle  
 ; STATE: Washington  
 ; COUNTRY: USA  
 ; ZIP: 98055  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; FILING DATE: 30-Oct-2002  
 ; CLASSIFICATION: <Unknown>  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Roseman, Steven J.  
 ; REGISTRATION NUMBER: 43,058  
 ; REFERENCE/DOCKET NUMBER: 200116.402C3  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (206) 622-4900  
 ; TELEFAX: (206) 682-6031  
 ; INFORMATION FOR SEQ ID NO: 9:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1467 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 1..1464  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
 US-10-286-175-9

Query Match 71.3%; Score 1217; DB 14; Length 1467;  
 Best Local Similarity 85.9%; Pred. No. 0;  
 Matches 1467; Conservative 0; Mismatches 0; Indels 240; Gaps 1;  
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Search completed: March 30, 2004, 06:44:14  
Job time : 458 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

DM nucleic - nucleic search, using sw model

Run on: March 30, 2004, 03:08:57 ; Search time 87 Seconds  
(without alignments)  
10888.519 Million cell updates/sec

Title: US-10-053-510-7

Perfect score: 1707

Sequence: 1 atgcctagcagacacctctt.....gttctcaaacccactga 1707

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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- 2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1707	100.0	1707	4	US-08-939-309-3
3	1707	100.0	1707	4	US-08-939-309-3
4	1699	99.5	2130	4	US-09-356-643B-7
5	1278.2	74.9	1707	4	US-08-939-309-1
6	1278.2	74.9	1707	4	US-08-939-309-1
7	1278.2	74.9	1707	4	US-08-939-309-1
8	1217	71.3	1467	4	US-09-356-643B-5
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44	32.2	1.9	1020	4	US-09-107-532A-379	Sequence 379, Appli
45	32.2	1.9	2358	3	US-09-022-983-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-08-939-309-3

Sequence 3, Application US/08939309

Patent No. 6423527 A<sup>2</sup>

GENERAL INFORMATION:

APPLICANT: Saba, Julie D.

APPLICANT: Zhou, Jianhui

TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE

TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND

TITLE OF INVENTION: METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/939,309

FILING DATE: 29-SEP-1997

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: David, Maki J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 200116.402

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 1707 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

FEATURE:

NAME/KEY: CDS

LOCATION: 1..1704

US-08-939-309-3

Query Match 100.0%; Score 1707; DB 4; Length 1707;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCCTAGCAGACCTCTCTGATCTTGAGGCCCTTTGAGCCCTACTTAGAGATTGGA 60





FILE REFERENCE: 200116.402C1  
CURRENT APPLICATION NUMBER: US/09/356.643B  
CURRENT FILING DATE: 1999-07-19  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7  
LENGTH: 1707  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (1)...(1707)  
US-09-356-643B-7

Query Match		100.0%; Score 1707; DB 4; Length 1707;
Best Local Similarity	100.0%; Pred. No. 0;	
Matches 1707; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
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Qy	181	TTCCAGCCAGAGATTTATGTTCAAGGTTTAAAAGAAATGTTTAAAGTCCACGGAAG 240
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Qy	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGAGCCCTCTGG 420
Db	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAAGAGTACAGCTCTATGGAGCCCTCTGG 420
Qy	421	CAAGAGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCCTT 480
Db	421	CAAGAGGGAGAGCCCTCTGGAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCCTT 480
Qy	481	GTGAAGCTTATGGAGATTTTCATGGATACCCCTGATCCAGATATCTTCCAGGA 540
Db	481	GTGAAGCTTATGGAGATTTTCATGGATACCCCTGATCCAGATATCTTCCAGGA 540
Qy	541	CTACGCAAGATAGAGCAGAAATTTGTAGGATAGCTTGTTCCTGTTCAATGGGGACCA 600
Db	541	CTACGCAAGATAGAGCAGAAATTTGTAGGATAGCTTGTTCCTGTTCAATGGGGACCA 600
Qy	601	GATTCTGTGGATGTGACTCTGGGGGACAGAAAGCTACTATGCGCTCCCAAGGA 660
Db	601	GATTCTGTGGATGTGACTCTGGGGGACAGAAAGCTACTATGCGCTCCCAAGGA 660
Qy	661	TGTCGGATCTGGCTTTGAGAGGGGATCAAAATCTCCAGAAATTTGGCTCCCAAGT 720
Db	661	TGTCGGATCTGGCTTTGAGAGGGGATCAAAATCTCCAGAAATTTGGCTCCCAAGT 720
Qy	721	GCCATGCTGCATTTAAACAAAGCAGCCAGTTTACTTTGGATGAAGATTTGGGGTCCCA 780
Db	721	GCCATGCTGCATTTAAACAAAGCAGCCAGTTTACTTTGGATGAAGATTTGGGGTCCCA 780
Qy	781	TTGACGAAGATGATGGAGTGTGATGAGGCAATGAGAAAGCTATCTCCAGGAACACT 840
Db	781	TTGACGAAGATGATGGAGTGTGATGAGGCAATGAGAAAGCTATCTCCAGGAACACT 840

Qy	841	GCATGCTGCTGTTCTTACCCACAGTTTCTCATGTTGTTAATAGATCCTGCTCCTGAA 900
Db	841	GCATGCTGCTGTTCTTACCCACAGTTTCTCATGTTGTTAATAGATCCTGCTCCTGAA 900
Qy	901	GTGCCAAGCTGCTGTCAAAATACAAAATACCCCTTCAATGTCGAGCTTGTCTGGAGC 960
Db	901	GTGCCAAGCTGCTGTCAAAATACAAAATACCCCTTCAATGTCGAGCTTGTCTGGAGC 960
Qy	961	TTCTCATGCTCTTTATGGAGAGCAGGATACCCACTGAGCACCCTATTTTCATTTCCGG 1020
Db	961	TTCTCATGCTCTTTATGGAGAGCAGGATACCCACTGAGCACCCTATTTTCATTTCCGG 1020
Qy	1021	GTGAAAGGTGTAAACAGCAATTTCCAGCTGACACCAATAGTATGGCTATGCCCAAAAGC 1080
Db	1021	GTGAAAGGTGTAAACAGCAATTTCCAGCTGACACCAATAGTATGGCTATGCCCAAAAGC 1080
Qy	1081	TCATCATGTTGTTATAGTGACAAAGTACAGGAATATCAGTTCTTCTGTCGATACA 1140
Db	1081	TCATCATGTTGTTATAGTGACAAAGTACAGGAATATCAGTTCTTCTGTCGATACA 1140
Qy	1141	GATTGGCAGGCTGTCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTGTTGGCAAT 1200
Db	1141	GATTGGCAGGCTGTCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTGTTGGCAAT 1200
Qy	1201	AGCGAGCCTGTTGGCTGCTTGAAGCACTTGGTGAGAACGGCTATGTTGAAGTACC 1260
Db	1201	AGCGAGCCTGTTGGCTGCTTGAAGCACTTGGTGAGAACGGCTATGTTGAAGTACC 1260
Qy	1261	AAACAGATCATCAAACTGCTCGCTTCTCAAGTCAAGCTGGAATATCAAGGCAATC 1320
Db	1261	AAACAGATCATCAAACTGCTCGCTTCTCAAGTCAAGCTGGAATATCAAGGCAATC 1320
Qy	1321	TTGTTTTGGGAAATCCCAATGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380
Db	1321	TTGTTTTGGGAAATCCCAATGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380
Qy	1381	TACGACTATCAAACTGATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
Db	1381	TACGACTATCAAACTGATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
Qy	1441	CCAGTATTCATTTCTGCTACATTAATCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Db	1441	CCAGTATTCATTTCTGCTACATTAATCAAGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500
Qy	1501	CTAAGGACATTCAGGAATCTGCTCAATCAATCAATCAATCAATCAATCAATCAATCA 1560
Db	1501	CTAAGGACATTCAGGAATCTGCTCAATCAATCAATCAATCAATCAATCAATCAATCA 1560
Qy	1561	GGATGGGTGCTCTATGCCATGCCCAAGCAATCTGTTGACAGGAATATGTTGAGAA 1620
Db	1561	GGATGGGTGCTCTATGCCATGCCCAAGCAATCTGTTGACAGGAATATGTTGAGAA 1620
Qy	1621	TTGCTCTCAGTCTTCTGGAGCTTGTGACAGCACCAGACTGTACCCAGGCGAGCCAG 1680
Db	1621	TTGCTCTCAGTCTTCTGGAGCTTGTGACAGCACCAGACTGTACCCAGGCGAGCCAG 1680
Qy	1681	ATGAATGGTCTTCCAAAACCCCACTGA 1707
Db	1681	ATGAATGGTCTTCCAAAACCCCACTGA 1707

RESULT 4  
US-09-740-369-1  
Sequence 1, Application US/09740369  
Patent No. 6521437  
GENERAL INFORMATION:  
APPLICANT: DUCKWORTH, DAVID MALCOLM  
APPLICANT: GODDEN, ROBERT JAMES  
APPLICANT: TESTA, TANIA TAMSON  
TITLE OF INVENTION: NOVEL COMPOUNDS  
FILE REFERENCE: GP-30034-D1  
CURRENT APPLICATION NUMBER: US/09/740.369

CURRENT FILING DATE: 2000-12-19  
PRIOR APPLICATION NUMBER: EP 98300625.5  
PRIOR FILING DATE: 1998-01-29  
PRIOR APPLICATION NUMBER: UK 9824026.0  
PRIOR FILING DATE: 1998-11-03  
PRIOR APPLICATION NUMBER: 09/238,373  
PRIOR FILING DATE: 1999-01-27  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 2130  
TYPE: DNA  
ORGANISM: HOMO SAPIENS  
J9-09-740-369-1

Query Match 99.5%; Score 1699; DB 4; Length 2130;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1702; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
2Y 1 ATGCTAGCAGACCTTCTGATGTTGAAGCCCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
Db 178 ATGCTAGCAGACCTTCTGATGTTGAAGCCCTTTGAGCCCTACTTAGAGATTTTGGAA 237  
2Y 61 GTATACCTCCAAAAGCCAAAGATTTAATGGAATTTGCAACCAAGTATGAGCCCTGG 120  
Db 238 GTATACCTCCAAAAGCCAAAGATTTAATGGAATTTGCAACCAAGTATGAGCCCTGG 297  
2Y 121 CAGCTAATGTCATGAGGTGCTGTCGACCTGCTGATAGTCTGGGATATGATTTGTC 180  
Db 298 CAGCTAATGTCATGAGGTGCTGTCGACCTGCTGATAGTCTGGGATATGATTTGTC 357  
2Y 191 TTCAGCCAGAGGTTATGTCGTAAGGTTTAAAGAAATTTTAAAGTCCACGGAAG 240  
Db 358 TTCAGCCAGAGGTTATGTCGTAAGGTTTAAAGAAATTTTAAAGTCCACGGAAG 417  
2Y 241 ATGCCCATTTATGTCGTAAGGTTTAAAGAAATTTTAAAGTCCACGGAAG 300  
Db 418 ATGCCCATTTATGTCGTAAGGTTTAAAGAAATTTTAAAGTCCACGGAAG 477  
2Y 301 AAGAAATGTCATTCCTGAAAGTGAACAAAGATATGTAAGGTTTAAAGTCCACG 360  
Db 478 AAGAAATGTCATTCCTGAAAGTGAACAAAGATATGTAAGGTTTAAAGTCCACG 537  
2Y 361 CTGACCTATCTGCTGTTTTCGAGAACTTAAAGAGTACAGCTCTATGAGGCTCTG 420  
Db 538 CTGACCTATCTGCTGTTTTCGAGAACTTAAAGAGTACAGCTCTATGAGGCTCTG 597  
2Y 421 CAAGAGGGAGAGCCTCTGAAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCTT 480  
Db 598 CAAGAGGGAGAGCCTCTGAAACAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCTT 657  
2Y 481 GTGAAGGCTTATGAGATTTTGCATGGAGTAAACCCCTGATCCAGATATCTCCAGGA 540  
Db 658 GTGAAGGCTTATGAGATTTTGCATGGAGTAAACCCCTGATCCAGATATCTCCAGGA 717  
2Y 541 CTACGCAAGATAGAGCCAGAAATTTGAGGATAGCTTTTCCCTGTTCAATGGGGACCA 600  
Db 718 CTACGCAAGATAGAGCCAGAAATTTGAGGATAGCTTTTCCCTGTTCAATGGGGACCA 777  
2Y 601 GATTCGTGTGATGTGATCTTCTGGGGAAACAGAAAGCATCTATGAGCTGCAAGCA 660  
Db 778 GATTCGTGTGATGTGATCTTCTGGGGAAACAGAAAGCATCTATGAGCTGCAAGCA 837  
2Y 661 TGTGCGGATCTGCGCTTTGAGAAAGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 720  
Db 838 TATCGGGATCTGCGCTTTGAGAAAGGGATCAAACTCCAGAAATTTGGCTCCCAAGT 897  
2Y 721 GCCATGCTGCAATTAACAAAGACCCAGTACTTTGGGATGAAGATTTGCGGGTCCCA 780  
Db 898 GCCATGCTGCAATTAACAAAGACCCAGTACTTTGGGATGAAGATTTGCGGGTCCCA 957  
2Y 781 TTGACCAAGATGATGAGGTGATGTGAGGCAATGAGAGAGTACTCTCCAGGAACACT 840

Db 958 TTGACGAAGATGATGAGGTGGATGTGCGGCAATGAGAAGAGCTATCTCCAGGAACACT 1017  
QY 841 GCCATGCTGCTGTTCTATCCCAAGTTTCTCATGGTGTAAATAGATCCTCTCCCTGAA 900  
Db 1018 GCCATGCTGCTGTTCTATCCCAAGTTTCTCATGGTGTAAATAGATCCTCTCCCTGAA 1077  
QY 901 GTGCCAAGCTGGCTGTCAAAATACAAAATACCCCTTCAATGTGAGAGCTTGTCTGGAGGC 960  
Db 1078 GTGCCAAGCTGGCTGTCAAAATACAAAATACCCCTTCAATGTGAGAGCTTGTCTGGAGGC 1137  
QY 961 TTCTCATCTGCTTTATGAGAAAGCAGATACCCACTGGAGCACCATTTTCTGATTTCCGG 1020  
Db 1138 TTCTCATCTGCTTTATGAGAAAGCAGATACCCACTGGAGCACCATTTTCTGATTTCCGG 1197  
QY 1021 GTGAAGGTGTAAACAGCATTTTCACTGACACCCATAAGTATGGCTATGCCCAAAAGGC 1080  
Db 1198 GTGAAGGTGTAAACAGCATTTTCACTGACACCCATAAGTATGGCTATGCCCAAAAGGC 1257  
QY 1081 TCATCATGCTGTTGTATAGTGACAAAGATGACGAAGTATCAGTTCTTCTGTCGATACA 1140  
Db 1258 TCATCATGCTGTTGTATAGTGACAAAGATGACGAAGTATCAGTTCTTCTGTCGATACA 1317  
QY 1141 GATTGGCAGGCTGGCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTCGTGCAAT 1200  
Db 1318 GATTGGCAGGCTGGCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTCGTGCAAT 1377  
QY 1201 AGCCAGCCTGTTGGGCTGGCTGATGACCTTGGTGAAGACGGCTATGTTGAAGTACC 1260  
Db 1378 AGCCAGCCTGTTGGGCTGGCTGATGACCTTGGTGAAGACGGCTATGTTGAAGTACC 1437  
QY 1261 AAACAGATCATCAAACTGCTGCTTCCCAACCATCGCAGGCTCACGGCTCGTGCAAT 1320  
Db 1438 AAACAGATCATCAAACTGCTGCTTCCCAACCATCGCAGGCTCACGGCTCGTGCAAT 1497  
QY 1321 TTTGTTTTGGGAATCCCAATTTGTGATCTGCTGCGATCCCGTGTATTTGACATC 1380  
Db 1498 TTTGTTTTGGGAATCCCAATTTGTGATCTGCTGCGATCCCGTGTATTTGACATC 1557  
QY 1381 TACGACTATCAAACTGATGCTGCTGAGGGTGGAACTTGAAACAGTTGAGATTCCCA 1440  
Db 1558 TACGACTATCAAACTGATGCTGCTGAGGGTGGAACTTGAAACAGTTGAGATTCCCA 1617  
QY 1441 CCCAGTATTCATTTCTGCATCACAATTAACAGCCCGGAAAGAGTAGCTATACAATTC 1500  
Db 1618 CCCAGTATTCATTTCTGCATCACAATTAACAGCCCGGAAAGAGTAGCTATACAATTC 1677  
QY 1501 CTAAGAGCATTCGAGATCTGCTCACTCAATCATGAAGATCCTAAAGCAGAGACCA 1560  
Db 1678 CTAAGAGCATTCGAGATCTGCTCACTCAATCATGAAGATCCTAAAGCAGAGACCA 1737  
QY 1561 GGAATGGGTGCTATCTATGCTGCGCCAGACAACTTTGACAGGAATATGTTGAGAA 1620  
Db 1738 GGAATGGGTGCTATCTATGCTGCGCCAGACAACTTTGACAGGAATATGTTGAGAA 1797  
QY 1621 TTGCTCAGTCTTTGGAGAGCTTGTACAGCAGCAGTGTACCCAGGCGCAGCAG 1680  
Db 1798 TTGCTCAGTCTTTGGAGAGCTTGTACAGCAGCAGTGTACCCAGGCGCAGCAG 1857  
QY 1681 ATGAATGTTTCTCCAAAACCCCACTGA 1707  
Db 1858 ATGAATGTTTCTCCAAAACCCCACTGA 1884

RESULT 5  
US-08-939-309-1  
; Sequence 1, Application US/08939309  
; Patent No. 6423527  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; APPLICANT: Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR

NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/939,309  
FILING DATE: 29-SEP-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: David, Maki J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 200116,402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1707 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1704  
US-08-939-309-1

Query Match 74.9%; Score 1278.2; DB 4; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

Qy	1	ATGCTAGACACAGACCTCTCTGATGTGAAGGCTTTGAGCCCTACTTAGAGATTITGGAA	60
Db	1	ATGCCCGAACCGACTCTCTCAAGCTGAAGGACTTCGAGCCTTATTTGGAGATTITGGAA	60
Qy	61	GTATATCCACAAAGCCAGAAATATGTAATGACATATGCACCAAGATAGCCCTGG	120
Db	61	TCCTATTCCACAAAGCCAGAAATATGTAATGATATATGCACCAATATAGCCCTGG	120
Qy	121	CAGCTAATTCATGGAGTGTCTGCTGGACCTGCTGATAGTCTGGGGATATGAGTTGTC	180
Db	121	CAGCTANTGCTGGAGTGTCTGCTGATCTCTGCTGATAGTCTGGGTATGAGCTTATC	180
Qy	181	TTCCAGCCAGAGAGTTTATGGTCAAGGTTTAAAGAAATGTTTAAAGCTCACAGGAAG	240
Db	181	TTCCAGCCAGAGAGTTTATGGTCTCGGTTTAAAGAAATGTTTAAAGCTTATCAGGAAG	240
Qy	241	ATGCCCATTTATGGTGTGTAAGTTCAGACAGTTCAGACCAAGCAGGATGATATAGC	300
Db	241	ATGCCCATTTATGGAGTGAATTCAGACACAGTTCAGACCAAGCAGGATGATATAGC	300
Qy	301	AAGAACATATGTCATTCCTGAAAGTGAACAAAGATATGTGAAGGCTTACCTCCAGGGT	360
Db	301	AAGAACATGCTTCCTTAAAGTGGACAGGATATGTGAAGGCTTACCTCCAGGGT	360
Qy	361	CTGAGCTCATCTGCTGTTTGGAGAACTTAAGGATACAGCTTATGGAGCCCTTCGG	420
Db	361	ATGGGCACAGCTCAGGTTCTGAGAGACTCAAGGATACAGCTTCAATGATGGTTCTCGG	420
Qy	421	CAAGAGGGAGAGCCTCTGAAACAGTGTACAGTGGGGAGGAGAGCTCAGAGCTCCT	480
Db	421	CAAGAGGGAAAGCCTCAGAGCTGTGTACAATGGGGAACCGAAGCTCAGGAGCTGCTG	480
Qy	481	GTGAAGCCTTATGAGATTTTGTGATGGAGTAACCCCTGCATCCAGATATCTTCCAGGA	540
Db			

Db	481	GTGAGGCTTATGAGAAATTCAGTGGAGCAATCCACTGCATCCAGATATCTTCCCTGGA	540
Qy	541	CTACGCAAGATAGAGGAGAAATTTGAGATAGCTTTTCCCTGTTCAATGGGGACCA	600
Db	541	TTGGGAAATTTAGAGGAGAAATCGTTAGGATAGCTTTTCCCTTCAATGGGGACCA	600
Qy	601	GATTCGTGTGATGTGTGACTTCTGGGGAAACAGAAAGCATACTCATGGCCTCAGAAAGCA	660
Db	601	GATTCGTGTGATGTGTGACTTCTGGGGAAACAGAAAGCATCTGTGATGGCCTCAGAAAGCT	660
Qy	661	TGTCGGGATCTGGCCTTTGAGAGGGGATCAAACTCCAGAAATTTGTGGCTCCCAAGT	720
Db	661	TACCGGACTTTGGCGTTAGAGAGGGATCAAACTCCAGAAATTTGTGGCTCCCGAGT	720
Qy	721	GCCCATGCTGATTTAAACAAGCAGCCAGTTTCTTGGGATGAAGATTGTGCGGTCCTCA	780
Db	721	GCCCATGCTGATTCGACAAAGCAGCTCATTTTGGGATGAAGATTGTCCGAGTTGCA	780
Qy	781	TTGACGAAGATGATGGAGGTGGATGTGAGGGCAATGAGAAGAGCTATCTCCAGAAACT	840
Db	781	CTGAAAAAGAACATGGAGGTGGATGTGAGGCAATGAGAAGAGCTATCTCCAGAAACA	840
Qy	841	GCCATGCTGCTGTTCTTACCCGACAGTTTCTCATGCTGATAGTAACTGCTCCCTGAA	900
Db	841	GCTATGCTGGTCTGTTCTTACCCGACAGTTTCTCATGCTGATAGTAACTGCTCCCGAA	900
Qy	901	GTGGCCAAAGCTGGTGTCAAAATACAAAATACCCCTTCATGTCGACGCTTGTCTGGAGGC	960
Db	901	GTGGCCAAAGTTAACTGTGACAGATATAAAATCCCACTCCATGTGGATGCTTGTCTGGGGGC	960
Qy	961	TTCTCATCTGCTTTATGAGAAAGCAGGATACCCACTGGGACCCATTTGATTTCCGG	1020
Db	961	TTCTCATCTGCTTTATGAGAAAGCAGGATACCCACTGGGACCCATTTGATTTCCGG	1020
Qy	1021	GTGAAGGTGTAACCCAGCATTTCAAGCTGACACCCATTAAGTATGCTATGCCCAAAAGC	1080
Db	1021	GTGAAGGTGTGACCCAGCATTTCAAGCTGATCTAAGTATGCTATGCTCTAAAGT	1080
Qy	1081	TCATCATTTGTTGTATGACAGAGTACAGGAATCTAGTTCTTCTTCGTCGATACA	1140
Db	1081	TCATCAGTGGTGAATCTCTAAGAGAGTACAGGACGTTACCAAGTTCTTTTGTGGTGA	1140
Qy	1141	GATTCGAGGGTGGCATCTATGCTTCCCAACCATCGCAGGCTCACGGCTCTGGTGGCAT	1200
Db	1141	GACTGGCAAGTGGTGTCTAGCATCTCCAAGCATAGCTGGCTCACGGCTCTGGTGGCAT	1200
Qy	1201	AGCGAGGCTGTGGGCTGCTGATGACATTCGGTGAGAACGCTATGTTGAAGCTACC	1260
Db	1201	ATTGCAGCCTGTGGGCGGCTTGTATGCACTTCGGTGAGAACGCTATGTTGAAGCTACC	1260
Qy	1261	AAACAGATCATCAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAAAGGCATC	1320
Db	1261	AAACAGATCATCAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAAAGGCATC	1320
Qy	1321	TTTGTGTTTGGAAATCCCAATTTGCTCAATTTGCTGCTGGATCCCGTATTTGACATC	1380
Db	1321	TTTGTGTTTGGTATCCCAATTTGCTCAATTTGCTGCTGGATCCCAAGATTTTGAATC	1380
Qy	1381	TACCGATCATCAAACTGCTGCTTAAAGGGTGAATTTTAACTACCTGCTGCTCCCA	1440
Db	1381	TACCGATCATCAAACTGCTGCTTAAAGGGTGAATTTTAACTACCTGCTGCTCCCA	1440
Qy	1441	CCAGTATTTCAATTTCTGCTATCACTACACGCCCCGAAACGAGTATGATCAATTC	1500
Db	1441	AGAAGCATTTCAATTTCTGCTATACGTTAGTATACATACTCGAAGCGAGTGGCGATTC	1500
Qy	1501	CTAAGGACATTCGAGATCTGCTCACTCAATCATGAAGATCTTAAAGCAAGACACACA	1560
Db	1501	CTAAGGATATCCGGAATCAGTCACAAATCATGAAGATCTTAAAGCTTAAAGCACACA	1560
Qy	1561	GGAATGGGTGCCATCTATGCCATGGCCAGGCAACCACTTGAAGAGAGTATGTTGAGAA	1620
Db	1561	GGAATGGGTGCCATCTATGGCATGGCCAGGCAACCACTTGAAGAGAGTATGTTGAGAA	1620



1621 TTGTCCTCAGCTCTTCTGGACAGCTTGACACCGACACAGCTGTACCCAGGCGACCCAG 1680  
1621 ATATCTCTCGCTCTCTGGACTGCTTTATCTACGACCCCTGTGACTCAGGCGCAACCAG 1680  
1681 ATGAATGGTTCTCCAAACCCCACTGA 1707  
1681 ATGAACGGTTCTCCAAAGCCCGCTGA 1707

RESULT 6  
US-09-849-180-1  
Sequence 1, Application US/09849180  
Patent No. 6495359  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
Zhou, Jianhui  
TITLE OF INVENTION: SHINGOSINE-1-PHOSPHATE LYASE  
POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/849,180  
FILING DATE: 04-May-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Pepe, Jeffrey C.  
REGISTRATION NUMBER: 46,985  
REFERENCE/DOCKET NUMBER: 200116,402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1707 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1704  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-849-180-1

Query Match 74.9%; Score 1278.2; DB 4; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 1439; Conservative 0; Mismatches 268; Indels 0; Gaps 0;

QY 1 ATGCTAGCACAGACCTCTGATGTGAAGCCCTTTGAGCCCTACTTAGAGATTTCGAA 60  
DB 1 ATGCCCGGAACCGACCTCTCAAGCTGAAGGACTTCGAGCCTTATTGGAGATTTCGAA 60  
QY 61 GTATATCTCCAAAAAGCCAAAGAAATTATGTAATGGACATTGCAACCAAGATGAGCCCTGG 120  
DB 61 TCTATTCCAAAAAGCCAAAGAAATTATGTAATGGATATGCAACCAATATGAGCCCTGG 120  
QY 121 CAGCTAATTGCAATGAGTGTCTGTGGACCTCTGATAGCTGGGATATGAGTTGTC 180  
DB 121 CAGCTCATTTGGGTGGAGTGTCTGTGTACTCTGCTGATGCTGGGTATGAGCTTATC 180  
QY 181 TTCCAGCCAGAGAGTTTATGTGTCAGAGTTTAAAGAAATGTTTTAAGCTCACCAGGAAG 240

181 TTCCAGCCAGAGAGTTTATGTCTCGTTTTAAAAAAATTTAATTTAAGCTTATCAGGAAG 240  
241 ATGCCCATTTATTTGGTCTGAAGATTCAAGACAAGTTGAAACAAGCAAGAGATGATTTAGC 300  
241 ATGCCATTATTGGACGTAAAGTCGAACAACAGGTGAGCAAGCCCAAGAGGATCTTGTTC 300  
301 AAGAACATGTCTATCTGAAAGTGGACAAAGAGTATGTGAAGCTTTACCTTCCAGGGT 360  
301 AAGAACATGCCATTCTTAAAGGTGGACAAGGATTATGTGAACACTCTGCTGCTCAGGGT 360  
361 CTGAGCTCATCTGCTGTTTTGGAGAAACTTAAAGGAGTACAGCTCTATGAGACGCTTCTGG 420  
361 ATGGGCACAGCTGAGGTTCTGGAGAGACTCAAGGAGTACAGCTCCATGGATGGTTCTCTGG 420  
421 CAAGAGGGGAGACCTCTCTGGAACAGAGTGTACAGTGGGAGGAGAGCTCACTGAGCTCTT 480  
421 CAAGAGGGGAGACCTCTCAGAGAGCTGTGTACAATGGGGAACCGAAGCTCAGGAGCTGTG 480  
481 GTGAAGGCTTATGGAGATTGTCATGGAGTAACCCCTGCATCCAGATATCTTCCCAGGA 540  
481 GTGAGGCTTATGGAGATTCACTGGAGCAATCCACTGCATCCAGATATCTTCCCTGGA 540  
541 CTACGCAAGATAGAGCAGAAATTGTGAGGATAGCTTTGCTGCTTCAATGGGAGCA 600  
541 TTGCGAAGTTAGAGGCAGAAATCGTTAGGAGTACTTGTTCCTCTTCAATGGGAGCA 600  
601 GATTCGTGTGATGTGTGACTTCTGGGGAAACAGAAAGCATATCTATGCGCTGCAAGCA 660  
601 GATTCGTGTGATGTGTGACTTCTGGGGAAACAGAAAGCATCTGATGCGCTGCAAGCT 660  
661 TGTGCGGATCTGGCCTTTGAGAGGGGATCAAAACTCCAGAAATTGTGGCTTCCCAAGT 720  
661 TACCGGACTTGGCGTTAGAGAGGGGATCAAAACTCCAGAAATTGTGGCTTCCGAGAT 720  
721 GCCCATGCTGCATTTAACAAGCAGCCAGTTACTTTGGGATGAAGATTGTGCGGGTCCA 780  
721 GCCCATGCTGCATTTGACAAGCAGCTCATTTATTTGGGATGAAGATTGTGCGAGTTGA 780  
781 TTGACGAAGATGATGAGAGTGGATGTGAGGGCAATGAGAAGACTATCTCCAGGAACACT 840  
781 CTGAAAAAGAACATGGAGGTGGATGTGACGCAATGAAGAGAGCCATCTCCAGGAACACA 840  
841 GCCATGCTGCTGCTTTTACCCACAGTTTCTCCTGATGATAGATAGATCTGCTCCCTGAA 900  
841 GCTATGCTGCTGCTTTTACCCACAGTTTCTCCTCATGGTGTGATGATCTGCTCCCGAA 900  
901 GTGCGCAAGCTGGCTGTCAAAATACAAATACCCCTTCATGTCCAGCCTTGTCTGGGAGGC 960  
901 GTGCGCAAGTTAACTGTCAAGATATAAATCCCACTCATGTGGATGCTGTCTGGGAGGC 960  
961 TTCTCATCTGCTTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCTTTGATTTCCGG 1020  
961 TTCTCATCTGCTTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCTTTGATTTCCGG 1020  
1021 GTGAAGGTTAAACAGCATTTCAGCTGCACACCCATAAGTATGGCTATGCCCAAAAGGC 1080  
1021 GTGAAGGTTGACACGCAATTCAGCAGATACATCAATAGTATGGCTATGCTCTAAAGGT 1080  
1081 TCATCATTTGTTGTTATAGTGAACAAGATGACAGGAATATCAGTTCTTCGTGCTGATACA 1140  
1081 TCATCAGTGTGTATGTACTCTAACGAGAAGTACAGGACGTACCAGTTCTTTTGTGGTGA 1140  
1141 GATTCGCAAGGTGGCATCTATGCTTCCCAACCATCCAGGCTCACGGCTGTGGTCATT 1200  
1141 GACTGGCAAGGTGGTGTCTACGCACTCCAGCATAGCTGGCTCACGGCTGTGGTCATC 1200  
1201 AGCGCAGCCTGTGGGTGCTTGTGATGCACTTCGGTGAAGACGGCTATGTTGAAGTACC 1260  
1201 ATTGAGCCTGTGGGCGGCTTGTGATGCACTTCGGTGAAGACGGCTATGTTGAAGTACC 1260  
1261 AAACAGATCATCAAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAAAGGCATC 1320



Db 1261 AAACAGATCATCAAAATCTGCTCTCTGAGTTCAGAACTGGAAACATCAAAAACATC 1320  
QY 1321 TTTGTTTTGGAAATCCCAATTCGCTACTCATCTGCTGCGATCCCGTGTATTTGACATC 1380  
Db 1321 TTTGTTTTGGATCTCTCAATTCGCTAGTTATTTGCTCTGGATCCCAAGATTTGACAT 1380  
QY 1381 TACCGACTATCAAACTGATGCTGCTAAAGGGTGGAACTTGAACAGTTGCAATTCCTCA 1440  
Db 1381 TACCGACTATCAATATGATGCTGCTAAAGGGTGGAACTTGAACAGTTGCAATTCCTCA 1440  
QY 1441 CCCAGTATTCATTTCTGCTATCACAATCTACTACACCCCGGAAACGAGTAGCTATACAAATTC 1500  
Db 1441 AGAAGCATTCATTTCTGCTATTCAGTTAGTACTACTCGAAGCGAGTGGGATCCAGTTC 1500  
QY 1501 CTAAAGGACATTCGAGAACTCTGCTCACTCAAACTATGAGAACTCTAAAGCGAGACACACA 1560  
Db 1501 CTAAAGGATATCCGGGAATCATGCTACACAAATCATGAAGATCTAAAGCTAAGACACACA 1560  
QY 1561 GGAATGGGTGCCATCTATGCCATGCCCGGAGCAACTGTTGACAGGAATATGGTTGCAGAA 1620  
Db 1561 GGAATGGGTGCCATCTATGCCATGCCCGGAGCAACTGTTGACAGGAATATGGTTGCAGAA 1620  
QY 1621 TTGCTCTCAGTCTTCTTGACAGCTTTGTACAGCCCGGACACTGTCAACCCAGGGAGCCAG 1680  
Db 1621 ATATCTCTCGTCTTCTTGAGTCTGCTTTATATCTAGGACCCCGTGAATCAGGGCAACCAG 1680  
QY 1681 ATGAATGGTCTCCAAACCCCACTGA 1707  
Db 1681 ATGAACGGTTCTCCAAAGCCCGCTGA 1707

RESULT 7

US-09-356-643B-5  
; Sequence 5, Application US/09356643B  
; Patent No. 6589666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: SPRINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356,643B  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 1707  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)...(1707)  
US-09-356-643B-5

Query Match 74.9%; Score 1278.2; DB 4; Length 1707;  
Best Local Similarity 84.3%; Pred. No. 0;  
Matches 143; Conservative 0; Mismatches 268; Indels 0; Gaps 0;  
QY 1 ATGCCTAGCAGACACCTTCTGATGTTGAAGGCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
Db 1 ATGCCCGGAACCGACCTCTCAAGCTGAAGGACTTCGAGCCCTTATTGAGATTTTGGAA 60  
QY 61 GTATATCTCCAAAGCCAGATTTATGTAATGGACATTCACCAAGTATGAGCCCTGG 120  
Db 61 TCTTATTTCCAAAGCCAGATTTATGTAATGGATTTGCAATATGCAATATGAGCCCTGG 120  
QY 121 CAGCTAATTCGATGGAGTGTGCTGTGGACCTCTGCTGATAGTCTGGGGATATGAGTTTCTC 180  
Db 121 CAGCTATTCGCTGGAGTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180  
QY 181 TTCAGCCAGAGATTTATGGTCAAGGTTTAAAGAAATGTTTAAAGCTCACCGAGAG 240  
Db 181 TTCAGCCAGAGATTTATGGTCTCGGTTTAAAGAAATTTATTTAAGCTTATCAGGAAG 240

QY 241 ATGCCCATTTATGCTGCTAGATTCAAGACAAGTTTGAACAAGCAACCAAGATGATATTAGC 300  
Db 241 ATGCCCATTTATGCTGCTAGATTCAAGACAAGTTTGAACAAGCAACCAAGATGATATTAGC 300  
QY 301 AAGAAACATGTCTCTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTTACCCCTCCAGGGT 360  
Db 301 AAGAAACATGCTCTCTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTTACCCCTCCAGGGT 360  
QY 361 CTGAGCTCATCTGCTGTTTGGGAGAACTTAAAGGATACAGCTCTATGGACCCCTTCTGG 420  
Db 361 ATGGGCAACAGCTGAGGTTCTGGAGAGACTCAAGAGTATCAGCTCCATGATGTTCTCTGG 420  
QY 421 CAAGAGGGGAGAGCTCTGGAAACAGTGTACAGTGGGGAGGAGAACTCACTAGCTTCCT 480  
Db 421 CAAGAGGGGAAAGCTCTCAGAGCTGTGTACATGGGGAACCGAAGCTCAGGAGTGTGTG 480  
QY 481 GTGAGGCTTATGAGAGATTTTGCATGAGAGTAAACCCCTGCATCCAGATATCTTCCAGCA 540  
Db 481 GTGAGGCTTATGAGAGATTTTGCATGAGAGTAAACCCCTGCATCCAGATATCTTCCCTGG 540  
QY 541 CTACGCAAGATAGAGGCGAGAAATTTGTGAGGATAGCTTTGTTCCCTGTTCAATGGGGAGCA 600  
Db 541 TTGCGAGATTTAGAGGCGAGAAATCTGTTAGAGTACTTTGTTCCCTCTTCAATGGGGAGCA 600  
QY 601 GATTCTGTGATGTGACTTCTGGGGGAAACAGAAAGCATATCTCATGSCCTCCAGAGCA 660  
Db 601 GATTCTGTGATGTGACTTCTGGGGGAAACAGAAAGCATATCTCATGSCCTCCAGAGCT 660  
QY 661 TGTGGGATCTGGCTTTTGAGAGGGGATCAAAATCTCCAGAAATTTGCTGCCCTCCCAAGT 720  
Db 661 TACCGGACTTTGGCTTTAGAGAGGGGATCAAAATCTCCAGAAATTTGCTGCCCTCCAGAGT 720  
QY 721 GCCCATGCTGCAATTTAAACAAAGCAGCTTACTTTGGGATGAAGATTTGTGCGGGTCCCA 780  
Db 721 GCCCATGCTGCAATTTAAACAAAGCAGCTTACTTTGGGATGAAGATTTGTGCGAGTTGCA 780  
QY 781 TTGAGAGATGATGAGGAGTGGATGTCAGGGCAATGAGAGAGCTATCTCCAGAAACACT 840  
Db 781 CTGAAAAAGACATGGAGGTTGGATGTCAGGGCAATGAGAGAGCTATCTCCAGAAACACT 840  
QY 841 GCATGCTGCTGCTGTTCTTACCCCAAGTTCCTCATGCTGTAATAGATTCCTGCTCCCTGAA 900  
Db 841 GCTATGCTGCTGCTGTTCTTACCCCAAGTTCCTCATGCTGTAATAGATTCCTGCTCCCTGAA 900  
QY 901 GTGGCCAGCTGGCTGTCAAAATCAAAATACCCCTTCATGTCAGCGCTTCTGCTGGGAGGC 960  
Db 901 GTGGCCAAAGTTAACTGTGATATAAAATCCCACTCCATGTTGATGCTTCTGCGGGGC 960  
QY 961 TTCTCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGCAACCATTTGATTTCCGG 1020  
Db 961 TTCTCTCATCTGCTTTATGGAGAAAGCAGGATACCCACTGGAGCAACCATTTGATTTCCGG 1020  
QY 1021 GTGAAAGGTGTAACAGCATTTTACGTCGACCCCATTAAGTATGCTATGCCCAAGGC 1080  
Db 1021 GTGAAAGGTGTGACAGCATTTTACGTCGACCATTAAGTATGCTATGCTTCTTAAAGGT 1080  
QY 1081 TCATCATTTGCTGCTGTATAGTGAAGAGTACAGGAACCTATCAGTTCTTCTGCTGATACA 1140  
Db 1081 TCATCATTTGCTGCTGTATAGTGAAGAGTACAGGAACCTATCAGTTCTTCTGCTGATACA 1140  
QY 1141 GATTGGCAGGGTGGCATCTATGCTTCCCAACCATTCGAGGCTCACGGCTTGGTGGCAT 1200  
Db 1141 GACTGGCAGGGTGGTGTCTACGCTATCTCAAGCATAGCTGGCTCACGGCTTGGTGGCAT 1200  
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Db 1201 ATTGAGCTGTTGGGCGGCTTGTATGCTTCCGTGAGAACGCTATGTTGAAGCTACC 1260  
QY 1261 AAACAGATCATCAAAATCTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAGAGCATC 1320  
Db 1261 AAACAGATCATCAAAATCTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAAACATC 1320

1321 TTGTTTTGGGAATCCCAATTTGTCATCTGCGATCCCGTGGATTTGACATC 1380  
1321 TTGATTTGGTGATCTCAATTTGATGATTTGCTCTGGATCCCAAGATTTGACAT 1380  
1381 TACGACTATCAACCTGATGATCTGATGAGGGTGGAACTTGAACCAAGTTGCAATCCCA 1440  
1381 TACGACTATCAATATGATGCTGCTGATGAGGGTGGAAATTTAACTACCTGCAATCCCA 1440  
1441 CCCAGTATTCATTTCTGATCATCATATCTACATGACCGCCGGAACGAGTAGCTATACATTC 1500  
1441 AGAAGCATTTCTTTCTGATTTAGTTAGTACATCTGAGAGGGAGTGGCGATCCAGTTC 1500  
1501 CTAAGGACATTCGAGAAATCTGCTACTCAATCATGAAGATCTTAAAGCGAAGCCACA 1560  
1501 CTAAGGATATCCGGAATCAGTCACACAATCATGAAGATCTTAAAGCTAAGACCCACA 1560  
1561 GGAATGGTCCCATCTATGCTGATGACCGCCGACCAACTGTTGACAGGAATATGTTGAGAA 1620  
1561 GGAATGGTGGCATCTATGGATGGCCGACGCAACCAATTGACAGGAAGTGGTTGAGAA 1620  
1621 TTGCTCTCAGTCTTCTTGGACAGCTTGTACAGCAGCCGACACTGTCTACCCAGGCGACCCAG 1680  
1621 ATATCTCCGCTCTTCTTGGAGTGGCTTTTACTACGAGCCCGTGTACTCAGGCGAACCCAG 1680  
1681 ATGAATGGTCTTCCAAACCCCACTGA 1707  
1681 ATGAACGGTCTTCCAAAGCCCGCTGA 1707

RESULT 8  
US-08-939-309-9  
Sequence 9, Application US/08939309  
Patent No. 6423527  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
APPLICANT: Zhou, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
TITLE OF INVENTION: METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESS: SEED AND BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/939,309  
FILING DATE: 29-SEP-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: David, Maki J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1467 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1464  
US-08-939-309-9

Query Match 71.3%; Score 1217; DB 4; Length 1467;  
Best Local Similarity 85.9%; Pred. No. 0;  
Matches 1467; Conservative 0; Mismatches 0; Indels 240; Gaps 1;  
QY 1 ATCCCTAGCACAGACCTTCTGATGTTGAAGCCCTTGGACCTTACTTAGAGATTTTGGAA 60  
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QY 61 GTATATCTCCAAAAAGCCAAAGATTTATGTAATGACATTTGCACCAAGTATGAGCCCTGG 120  
DB 61 GTATATCTCCAAAAAGCCAAAGATTTATGTAATGACATTTGCACCAAGTATGAGCCCTGG 120  
QY 121 CAGCTAATTTGATGAGTGTCTGTGGACCTTCTGTAGTCTGGGATATGAGTTTCTC 180  
DB 121 CAGCTAATTTGATGAGTGTCTGTGGACCTTCTGTAGTCTGGGATATGAGTTTCTC 180  
QY 181 TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAAAGAAATGTTTAAAGCTCACCAGGAAG 240  
DB 181 TTCCAGCCAGAGAGTTTATGCTCAAGGTTTAAAAAGAAATGTTTAAAGCTCACCAGGAAG 240  
QY 241 ATGCCCATATTTGGTCTGAAGATTTCAAGACAAAGTTGAACCAAGCAAGATATATAGC 300  
DB 241 ATGCCCATATTTGGTCTGAAGATTTCAAGACAAAGTTGAACCAAGCAAGATATATAGC 300  
QY 301 AAGACATGTCATTTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTTACCCCTCCAGGGT 360  
DB 301 AAGACATGTCATTTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTTACCCCTCCAGGGT 360  
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DB 361 CTGAGCTCATCTCTGTTTGGAGAAATTTAAGGAGTACAGCTCTATGAGACCCCTTCTGG 420  
QY 421 CAAGAGGGAGAGCCCTTGGACAGTGTACAGTGGGAGGAGAGCTCACTCAGCTCCTT 480  
DB 421 CAAGAGGGAGAGCCCTTGGACAGTGTACAGTGGGAGGAGAGCTCACTCAGCTCCTT 480  
QY 481 GTGAAGCTTTATGAGATTTTGCATGAGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
DB 481 GTGAAGCTTTATGAGATTTTGCATGAGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 540  
QY 541 CTAGCGAAGATAGAGGAGAAATTTGATGAGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 600  
DB 541 CTAGCGAAGATAGAGGAGAAATTTGATGAGAGTAAACCCCTGCATCCAGATATCTTCCAGGA 600  
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DB 661 TGTGGGATCTGGCTTTGAGAGGGGATCAAAATCTCCAGAAATTTGGCTTCCCAAGT 720  
QY 721 GCCATGCTGCTTTTAAACCAAGCAGCAGTACTTTGGGATGAAGATTTGGGGTCCCA 780  
DB 721 GCCATGCTGCTTTTAAACCAAGCAGCAGTACTTTGGGATGAAGATTTGGGGTCCCA 780  
QY 781 TTGACGAAGATGATGAGAGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGGAACAT 840  
DB 781 TTGACGAAGATGATGAGAGTGGATGTGAGGGCAATGAGAGAGCTATCTCCAGGAACAT 840  
QY 841 GCCATGCTGCTTTTAAACCAAGCAGCAGTACTTTGGGATGAAGATTTGGGGTCCCA 900  
DB 841 GCCATGCTGCTTTTAAACCAAGCAGCAGTACTTTGGGATGAAGATTTGGGGTCCCA 900  
QY 901 GTGGCCCAAGCTTGGCTGTCAAAATACAAAATACCCCTTTCATGTGAGCCTTGTCTGGAGGC 960  
DB 901 GTGGCCCAAGCTTGGCTGTCAAAATACAAAATACCCCTTTCATGTGAGCCTTGTCTGGAGGC 960  
QY 961 TTCTCATCTGCTTTTATGAGAGAAAGAGGATACCCCTGAGCAGCCCATTTGATTTCCGG 1020  
DB 961 TTCTCATCTGCTTTTATGAGAGAAAGAGGATACCCCTGAGCAGCCCATTTGATTTCCGG 1020

1021 GTGAAGGTGAACAGCATTTTCAGCTGACACCCATAGTATGCTATGCCCAAGGC 1080  
1021 GTGAAGGTGAACAGCATTTTCAGCTGACACCCATAGTATGCTATGCCCAAGGC 1059  
1081 TCATCATTTGGTGTGTATGATGACAGAGTACAGGAACTATCAGTCTTCGTCGTACATA 1140  
1060 ----- 1059  
1141 GATTGCGAGGTGGCATCTATGCTTCCCAACCATCGCAGGCTCAGCGCTGGTGGCATT 1200  
1060 ----- 1059  
1201 AGCGAGCGCTGTGGGCTGCTGTGATGACATTCGGGTGAGAACGGCTATGTTGAAGCTACC 1260  
1060 ----- 1059  
1261 AACAGATCATCAAACTGCTGCTTCTCAAGTCAGAACTGGAAATATCAAAAGGCATC 1320  
1060 ----- 1080  
1321 TTTGTTTTGGGAATCCCAATTTGCTCATCTATGCTCTGGGATCCCGTGTATTTGACATC 1380  
1081 TTTGTTTTGGGAATCCCAATTTGCTCATCTATGCTCTGGGATCCCGTGTATTTGACATC 1140  
1381 TACCGACTATCAAACTGATGACTGTAAGGGGTGAACTTGAACCAAGTTGCGAGTTCCTCA 1440  
1141 TACCGACTATCAAACTGATGACTGTAAGGGGTGAACTTGAACCAAGTTGCGAGTTCCTCA 1200  
1441 CCAGTATTCTATTTCTGATCATCAATTAATACACGCGCCGGAACAGTAGTATATCAATTC 1500  
1201 CCAGTATTCTATTTCTGATCATCAATTAATACACGCGCCGGAACAGTAGTATATCAATTC 1260  
1501 CTAAAGGATCTGAGAACTCTGCTCACTCAATCATGAGAACTCTTAAGCGAAGACACACA 1560  
1261 CTAAAGGATCTGAGAACTCTGCTCACTCAATCATGAGAACTCTTAAGCGAAGACACACA 1320  
1561 GGAATGGGTGCCATCTATGCCATGCGCCAGACAACTGTTGACAGGAATATGTTGTCAGAA 1620  
1321 GGAATGGGTGCCATCTATGCCATGCGCCAGACAACTGTTGACAGGAATATGTTGTCAGAA 1380  
1621 TTGCTCTAGTCTTTGAGAGCTTTGACAGCAGGCTGACAGCAGGCTGACAGGAGGAGCAG 1680  
1381 TTGCTCTAGTCTTTGAGAGCTTTGACAGCAGGCTGACAGCAGGCTGACAGGAGGAGCAG 1440  
1681 ATGAATGGTTCCTCAAAACCCCACTGA 1707  
1441 ATGAATGGTTCCTCAAAACCCCACTGA 1467

RESULT 9  
US-09-849-180-9  
Sequence 9, Application US/09849180  
Patent No. 6495359  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
INVENTOR: Zhou, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed Intellectual Property Law Group  
STREET: 701 Fifth Avenue, Suite 6300  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98055  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/849,180  
FILING DATE: 04-May-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Pepe Jeffrey C.  
REGISTRATION NUMBER: 46,985  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1467 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1464  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-09-849-180-9  
Query Match 71.3%; Score 1217; DB 4; Length 1467;  
Best Local Similarity 85.9%; Pred. No. 0;  
Matches 1467; Conservative 0; Mismatches 0; Indels 240; Gaps 1;  
QY 1 ATGCTAGCAGACCTTCTGATGTTGAGGCGCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
Db 1 ATGCTAGCAGACCTTCTGATGTTGAGGCGCTTTGAGCCCTACTTAGAGATTTTGGAA 60  
QY 61 GTATATCTCCACAAAGCCAGAAATATGTAATGGACATTTGCACCAAGATGAGCCCTGG 120  
Db 61 GTATATCTCCACAAAGCCAGAAATATGTAATGGACATTTGCACCAAGATGAGCCCTGG 120  
QY 121 CAGCTAATGTCATGAGTGTCTGTCGACCTGCTGATAGTCTGGGGATATGATTTTGTG 180  
Db 121 CAGCTAATGTCATGAGTGTCTGTCGACCTGCTGATAGTCTGGGGATATGATTTTGTG 180  
QY 181 TTCCAGCCAGAGAGTTTATGTCGAGTTTAAAGAAATGTTTAAAGCTCACAGGAAG 240  
Db 181 TTCCAGCCAGAGAGTTTATGTCGAGTTTAAAGAAATGTTTAAAGCTCACAGGAAG 240  
QY 241 ATGCCCATATTTGTCGTTTAAAGTTCAAGATTCAGACAGTTTGAACAGCAAGATGATATAGC 300  
Db 241 ATGCCCATATTTGTCGTTTAAAGTTCAAGATTCAGACAGTTTGAACAGCAAGATGATATAGC 300  
QY 301 AAGAACATGTCATCTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTACCTCCCGAGGT 360  
Db 301 AAGAACATGTCATCTCTGAAAGTGGACAAAGAGTATGTGAAAGCTTACCTCCCGAGGT 360  
QY 361 CTGAGCTCATCTGCTGTTTTCGAGAACTTAAAGAGTACAGCTCTATGGAGCGCTTCGG 420  
Db 361 CTGAGCTCATCTGCTGTTTTCGAGAACTTAAAGAGTACAGCTCTATGGAGCGCTTCGG 420  
QY 421 CAAGAGGGGAGAGCCTCTGGAACAGTGTACAGTGGGGAGGAGAGCTCCTGAGCTCCTT 480  
Db 421 CAAGAGGGGAGAGCCTCTGGAACAGTGTACAGTGGGGAGGAGAGCTCCTGAGCTCCTT 480  
QY 481 GTGAAGCTTATGAGATTTTGCATGGAGTAAACCCCTGATCCAGATATCTTCCAGGA 540  
Db 481 GTGAAGCTTATGAGATTTTGCATGGAGTAAACCCCTGATCCAGATATCTTCCAGGA 540  
QY 541 CTACGCAAGATAGAGCGAGAAATTTGATGAGGATAGTGTTCCTGTTTCAATGGGGACCA 600  
Db 541 CTACGCAAGATAGAGCGAGAAATTTGATGAGGATAGTGTTCCTGTTTCAATGGGGACCA 600  
QY 601 GATTGCTGAGATGTCATCTCTGGGGAAACAGAAAGCATCTCATGCGGCTGCAAGCA 660  
Db 601 GATTGCTGAGATGTCATCTCTGGGGAAACAGAAAGCATCTCATGCGGCTGCAAGCA 660  
QY 661 TGTCCGGATCTGCGCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTTCCCAAGT 720  
Db 661 TGTCCGGATCTGCGCTTTGAGAGGGGATCAAACTCCAGAAATTTGGCTTCCCAAGT 720





COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/939,309  
FILING DATE: 29-SEP-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: David, Maki J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1770 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1767

Query Match 15.0%; Score 256.2; DB 4; Length 1770;  
Best Local Similarity 55.0%; Pred. No. 1.9e-72;  
Matches 592; Conservative 0; Mismatches 473; Indels 12; Gaps 4;  
QY 413 CTTCTGCGAGGGGAGACCTCTGGAACAGTGTACAGTGGGGAGGAGACCTCACIG 472  
DB 485 CCCATGGAAGAGGAAGGATCTCTGGTGCCTTACCCGGTGGTGATGATTTGATCC 544  
QY 473 AGCTCCTTGTGAAGGCTTATGGAGATTTTGATGGAGTAACCCCTGCATCCAGATATCT 532  
DB 545 ACTTACABACATCGCATACGAAATATTTGCGTTGCCATCAATTACATCCCGATGCT 604  
QY 533 TCCAGGACTACGGAAGTAGAGGAGGAGAAATTTGAGAGTAGCTTGTCCCTGTTCAATG 592  
DB 605 TTCTCTGCGGTAGTAAATGGAATCCGAGTGGTTCTATGGTTTAAAGAAATGTTAATG 664  
QY 593 GGGGACAGATTCGTGTGGATGTGTG---ACTTCTGGGGGAAAGAGGAGATCATG 649  
DB 665 CCCCTTGTATACAGTTGTGGTACCAACATCTCAGGTGGTACAGATCCTTGTCTTTAG 724  
QY 650 COTGCAAGACATGTCGGGATCTGGCTTTTGAGAA---GGGGATCAAAATCCAGAAATG 706  
DB 725 CATGCTGAGCGCTAAATATGATGCGCTTTCATCATCGTGAATCACCAGAACCAAGATAA 784  
QY 707 TGGCTCCCAAGTCCCATGCTGCTATTAACAAAGCAGCCAGTTACTTTGGGATGAAGA 766  
DB 785 TTGCTCCCGTAACATGCTGCTGGTTTGACAAAGCTGCTTATTTATTTGGCATGAGC 844  
QY 767 TTGTGCGGTC---CCATGACAGAGATGATGGAGGTGATGTGAGGGCAATGAGAGAG 823  
DB 845 TAGCCACGTGCGAGCTAGATCCACGACATATCAAGTGGACCTGGGAAAGTGAAGAAAT 904  
QY 824 CTATCTCAGGAGACTGCCATGCTGCTGTTTACCCACAGTTCCTCATGCTGTAA 883  
DB 905 TCATCAATGAAGAACAAATTTTACTGGTGGTTCGCTCCAAATTTCTCATGTTATTG 964  
QY 884 TAGATCCTGCTCCCTGAAGTGGCCAAAGCTGGCTGTCAAAATACAAATACCCCTCATGTCG 943  
DB 965 CCGATGATATTCAAGATTGGGTAAATAGCACAAATATAAACTTCTTTACACGTCG 1024  
QY 944 AGCTTGTCTGGAGGCTTCCTCATGCTCTTATGGAGAGCAGGATACCCCTGAGC 1003  
DB 1025 ACAGTTGTCTAGTTCTCTTTATTTGTTTCAATTATGGAAGAGCTGGTTACAAATCTGC 1084  
QY 1004 ACCATTTGATTTCCGGGTGAAGGTGTAAACAGGATTTTCAGCTGACACCCATAGTATG 1063  
DB 1085 CATTACTGACTTTAGAGTCCCGGAGTCACTCAATCATGTGACACTCATTAATATG 1144

QY 1064 GCTATGCCCCAAAAGGCTCATCATTGGTGTGTATAGTACAAAGAGTACAGGAATATC 1123  
DB 1145 GATTGCAACAAAAGGCTCGTCAGTTATATATGATAGAAACAGCGACTTACGAATGCATC 1204  
QY 1124 AGTTCTTCGTGATACAGATTGGCAGGTGGATCTATGCTTCCCAACCATCGCAGGCT 1183  
DB 1205 AGTATTACGTAATCTCTGCTGGACTGGCGGGTTATATGGCTCTCTCTACATTAGCAGGT 1264  
QY 1184 CACGGCTGTGGCATTAGCGGAGCCTGTGGTGGCTGCTTGTATGACATTCGGGTGAGAACG 1243  
DB 1265 CCAGGCTGTGTATTTGCTGAGTTGTTGGCCACTATGCTCAACATGGGTGAAATG 1324  
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DB 1325 GGTACATTGAGTCTGTCGAAGAAATAGTCGGTGCAGCAATGAAGTTTAAAAATATCATCC 1384  
QY 1301 TGGAAATATCAAAAGCATCTTTTGGGAAATCCCAATTTGTCACTCATTCGCTCTGG 1360  
DB 1385 AGGAAACATTCAGACCTGAAATATTAATGGCAACCTAGATATTCAGTCAITTCATTT 1444  
QY 1361 GATCCCGTATTTGACATCTACCGACTATCAAACTGATGACTGCTAAGGGTGGAACT 1420  
DB 1445 CTTCAAGACCTTGAACATACAGAACTATCTGACAGGTGTTCACAGAAAGGCTGGCAT 1504  
QY 1421 TGRACCAAGTTCGAGTTCCCAACCCAGATTCATTTCTGTCATCATCTACTACAGGCC 1477  
DB 1505 TCAATGCCCTACAAAAGCCGGTGGCTACATACATGCGCTTCACGAGATTGAGGGCTC 1561

RESULT 13  
US-09-849-180-7  
; Sequence 7, Application US/09849180  
; Patent No. 645359  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; Zhou, Jianhui  
; TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
; POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; METHODS OF USE THEREFOR  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Seed Intellectual Property Law Group  
; STREET: 701 Fifth Avenue, Suite 6300  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98055  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/849,180  
; FILING DATE: 04-May-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Pepe, Jeffrey C.  
; REGISTRATION NUMBER: 46,985  
; REFERENCE/DOCKET NUMBER: 200116.402  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1770 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1767  
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:



US-09-849-180-7

Query Match 15.0%; Score 256.2; DB 4; Length 1770;  
Best Local Similarity 55.0%; Pred. NO. 1.9e-72;  
Matches 592; Conservative 0; Mismatches 473; Indels 12; Gaps 4;

QY 413 CCTTCTGGCAAGAGGGAGAGCCTCTGGACAGTGTACAGTGGGAGGAGAAGTCACTG 472  
Db 485 CCATATGGAAGGAAGGAAGGTCTCTGGTGGCGTTTACACAGGTGGTGAATTTGATCC 544  
QY 473 AGCTCTTGTGAAGCTTATGAGATTTTGCATGAGTAACCCCTGTCATCCAGATATCT 532  
Db 545 ACTTACAAACAATCGCATACGAAATAATGCGTTGCCAATCAATACATCCCATGCT 604  
QY 533 TCCAGGACTACCAAGATAGAGGACAGAAATTTGAGGATAGCTTTGTCCTGTTCAATG 592  
Db 605 TTCTGCGGTACGTAATAATGGAATCGAAGTGGTTCTATGGTTTAAAGATGTTAATG 664  
QY 593 GGGACCAAGTTCGTGTGATGTG---ACTCTGGGGACAGAGACATATCATG 649  
Db 665 CCCCTTCTGATACAGGTGTGGGTACCAACATTCAGGTGGTACAGAACTCTTGTCTTAG 724  
QY 650 CCTGCAAAAGCATGTCGGGATCTGGGCTTTGAGAA---GGGGATCAAAACTCCAGAAATG 706  
Db 725 CATGCTGAGCGCTAAATGATGATGCCCTTTCATCTCGTGGATTCACGAAACAGAAATA 784  
QY 707 TGCTCTCCCAAGAGTGCCTATGTCATTTTAAAGAGCAGCAGTTCCTTGGGATGAAGA 766  
Db 785 TTGCTCCCGTAACTGACATGCTGGGTTTGACAAAGCTGCTTATCTTTGGCATGAAGC 844  
QY 767 TTGTGGGGTGC---CAATTGACAGAGATGAGGAGTGGATGTGGGCAATGAGAGAG 823  
Db 845 TAGCCACAGCTGGAGCTAGATCCACAGCATATCAAGTGGACCTGGGAAAGTGAATAAT 904  
QY 824 CTATCTCCAGGAACACTGCCATGCTCTGCTGTCTTACCCCAAGTTCCTCATGTTGTA 883  
Db 905 TCATCAATAGACACAAATTTTACTGGTGGTTCGCTCCAACTTTCTCATGTTATG 964  
QY 884 TAGATCTGCTCCCTGAAGTGGCCAGCTGGCTGTGCAATACAAATACAAATACCTTCATGTCG 943  
Db 965 CCGATGATATGGAAGGATTTGGGTAAATAATAGCAAAATAATAAACTTCTTTACACGTCG 1024  
QY 944 ACCTTGTCTGGAGGCTTCCTCATGCTCTTTATGAGAAAGCAGATACCCACTGGAGC 1003  
Db 1025 ACAGTGTCTAGTTCCTTTATTTGTTTCAATTTATGGAAGAGGCTGGTTACAAATCTGC 1084

QY 1421 TGACACAGTTGCAGTTCACCCAGTATTCATTTCTGCATCATCATCTACAGCC 1477  
Db 1505 TCAATGCCCTACAAAAGCGGTTGCTACTACACATGGCTTACAGAGATTGAGCGCTC 1561

RESULT 14  
US-09-356-643B-1  
; Sequence 1, Application US/09356643B  
; Patent No. 6569666  
; GENERAL INFORMATION:  
; APPLICANT: Saba, Julie D.  
; TITLE OF INVENTION: SHINGOSINE-1-PHOSPHATE LYASE POLYPEPTIDES,  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND MODULATING AGENTS AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 200116.402C1  
; CURRENT APPLICATION NUMBER: US/09/356.643B  
; CURRENT FILING DATE: 1999-07-19  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1770  
; TYPE: DNA  
; ORGANISM: S. cerevisiae  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)....(1770)  
US-09-356-643B-1

Query Match 15.0%; Score 256.2; DB 4; Length 1770;  
Best Local Similarity 55.0%; Pred. NO. 1.9e-72;  
Matches 592; Conservative 0; Mismatches 473; Indels 12; Gaps 4;

QY 413 CCTTCTGGCAAGAGGGAGAGCCTCTGGACAGTGTACAGTGGGAGGAGAAGTCACTG 472  
Db 485 CCATATGGAAGGAAGGAAGGTCTCTGGTGGCGTTTACACAGGTGGTGAATTTGATCC 544  
QY 473 AGCTCTTGTGAAGCTTATGAGATTTTGCATGAGTAACCCCTGTCATCCAGATATCT 532  
Db 545 ACTTACAAACAATCGCATACGAAATAATTTGCTGTGCCAATCAATACATCCCATGCT 604  
QY 533 TCCAGGACTACCAAGATAGAGGACAGAAATTTGAGGATAGCTTTGTCCTGTTCAATG 592  
Db 605 TTCTGCGGTACGTAATAATGGAATCGAAGTGGTTCTATGGTTTAAAGATGTTAATG 664  
QY 593 GGGACCAAGTTCGTGTGATGTG---ACTCTGGGGACAGAGACATATCATG 649  
Db 665 CCCCTTCTGATACAGGTGTGGGTACCAACATTCAGGTGGTACAGAACTCTTGTCTTAG 724  
QY 650 CCTGCAAAAGCATGTCGGGATCTGGGCTTTGAGAA---GGGGATCAAAACTCCAGAAATG 706  
Db 725 CATGCTGAGCGCTAAATGATGATGCCCTTTCATCTCGTGGATTCACGAAACAGAAATA 784  
QY 707 TGCTCTCCCAAGAGTGCCTATGTCATTTTAAAGAGCAGCAGTTCCTTGGGATGAAGA 766  
Db 785 TTGCTCCCGTAACTGACATGCTGGGTTTGACAAAGCTGCTTATCTTTGGCATGAAGC 844  
QY 767 TTGTGGGGTGC---CAATTGACAGAGATGAGGAGTGGATGTGGGCAATGAGAGAG 823  
Db 845 TAGCCACAGCTGGAGCTAGATCCACAGCATATCAAGTGGACCTGGGAAAGTGAATAAT 904  
QY 824 CTATCTCCAGGAACACTGCCATGCTCTGCTGTCTTACCCCAAGTTCCTCATGTTGTA 883  
Db 905 TCATCAATAGACACAAATTTTACTGGTGGTTCGCTCCAACTTTCTCATGTTATG 964  
QY 884 TAGATCTGCTCCCTGAAGTGGCCAGCTGGCTGTGCAATACAAATACAAATACCTTCATGTCG 943  
Db 965 CCGATGATATGGAAGGATTTGGGTAAATAATAGCAAAATAATAAACTTCTTTACACGTCG 1024  
QY 944 ACCTTGTCTGGAGGCTTCCTCATGCTCTTTATGAGAAAGCAGATACCCACTGGAGC 1003  
Db 1025 ACAGTGTCTAGTTCCTTTATTTGTTTCAATTTATGGAAGAGGCTGGTTACAAATCTGC 1084



1004 ACCATTGTTGATTCGCGGTGAAGGTGTAAACAGCATTTACGTGACACCCATAAGTATG 1063  
1085 CATTACTTGACTTTAGAGTCCGCGGAGTCACTCAATATCATGTGACACTCATAAATATG 1144  
1064 GCTATGCCCAAGAGGTGATGTTGTTGATAGTGAAGTACAGAACTATC 1123  
1145 GATTGTCACCAAGAGGTGCTGAGTTATATGATAGAAACAGGAGCTTACGAATGATC 1204  
1124 AGTTCTTCTGTCATACAGATTGGCAGGAGTGGCATCTATGCTTCCCAACCATCGCAGGCT 1183  
1205 AGTATTAGTAATCTGCTTGACTGCGGGTATATGCTCTCTACATTAGCAGGGT 1264  
1184 CAGCGCTGCTGATAGCAGAGCTGTTGGGTGCTTATGATGATGCTTGGTGAGAACG 1243  
1265 CAGGCGCTGCTGATGCTGATGCTGAGTGTGTTGGGCACTATGCTCAACATGGGTGAAATG 1324  
1244 GCTATGTTGAAGCTACCAAAACAGATCATCAAACTGCGCTTCTCAAGTCAGAAC 1300  
1325 GGTACATTGAGTGGTGCAGAAATAGTGGTGACGCAATGAAGTTTAAATAATACATCC 1384  
1301 TGAATAATCAAGGATCTTTGTTTGGGATCCCAATTTGCTACTCATTTGCTCTGG 1360  
1385 AGGAAACATCCAGACCTGAAATATAATGGGCAACCTAGATATTCAGTCAATTTT 1444  
1361 GATCCCGTGAATTTGACATCTACGACTATCAAACTGATGACTGCTAAAGGGTGAAGT 1420  
1445 CTTCAAGACCTTGACATACAGCACTATCTGACAGGTTGTCAGAAAGGCTGGCAAT 1504  
1421 TGAACAGTTGAGTTCACCCAGCATATCAATTTCTGATCACAATTAATACAGCC 1477  
1505 TCAATGCCCTACAAAGCGGTGTCACATACATGCGCTTACGAGATTGAGCGCTC 1561

RESULT 15  
US-08-939-309-5  
Sequence 5, Application US/08939309  
Patent No. 6423527  
GENERAL INFORMATION:  
APPLICANT: Saba, Julie D.  
APPLICANT: Zhou, Jianhui  
TITLE OF INVENTION: SPHINGOSINE-1-PHOSPHATE LYASE  
TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND MODULATING AGENTS AND  
TITLE OF INVENTION: METHODS OF USE THEREFOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/939,309  
FILING DATE: 29-SEP-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: David, Maki J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 200116.402  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1629 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1626  
US-08-939-309-5  
Query Match 13.2%; Score 225.6; DB 4; Length 1629;  
Best Local Similarity 53.0%; Pred. No. 1.6e-62;  
Matches 589; Conservative 0; Mismatches 499; Indels 24; Gaps 4;  
424 GAGGCGAGAGGCTCTGGAACAGATGTACAGTGGGAGG-----AGAAGCTCACTGAGCTC 477  
Db 382 GAGGAAGAGTATCTGGAGCAGTCTTCAATAGAGAGACGACAGGACGACGAGATG 441  
478 CTTGTAAGGCTTATGAGATTTTGCATGAGATTAACCCCTGATCCAGATATCTCCCA 537  
Db 442 TATGAGGAGGTGTTGCGAAATTTTCCCTGACCAACCCACTTTGGGCCAAATTTGTTCCCT 501  
538 GGCATACCAAGATAGAGGCGAGAAATTTGAGGATAGCTTTGTTCCCTGTTCAATGGGGGA 597  
Db 502 GAGTGAGATCATGGAGGCTGAAGTTTTCGCATGTGTTGTAATATGATGATGAGAT 561  
598 CAGATTCGTGTGATGTGACTTCTGGGGGACAGAAAGCATACTCATGGCTGCAAA 657  
Db 562 TCGGAGACATGTGAACTATGCACTGGTGATCCATTTCAATTTCTTTGGCGTGGCTG 621  
658 GCATGTCGGGATCTGGCTTTTGAAGGGGATCAAACTCCAGAAATTTGGGTCCCCAA 717  
Db 622 GCTCATCTAATCTCTTTTGAAGAGGAGAAAGTACACAGATGATGTGCCATCA 681  
718 AGTCCCATGCTGATTTAAACAGCAGCAGTTTACTTTGGGATGAAGATTTGGCGGTC 777  
Db 682 TCGGTCCATGACGGTTCCTTCAAAGCTGCGGAATGTTTCCGTATCAAAGTTCGCAAGAT 741  
778 CCAAT---GAGAGAGATGATGAGGTGATGTAGGCGCAATGAGAGAGCTATCTCCAGG 834  
Db 742 CAGTTGATCTCTGTTACTTTCAAAGTACAGCTTCAAAGTAAAGCCGCAATTAACAG 801  
835 AACACTGCCATGCTGCTGTTCTTACCCACAGTTTCTCATGTTGTAATAGATCTCTGTC 894  
Db 802 AGAACATGATGTTAGTTGGATCTGCTCAAACCTTCCATTTGGAACCTGTTGATGACAT 861  
895 CCGTAAGTGGCAAGCTGGCTGTCAAAATACAAATACCCCTTCACTGTCGACGCTGCTG 954  
Db 862 GAAGCTATTGGACAGCTAGGACTTGAATATGACATCCAGTTTCACTGTTGATGCTGCT 921  
955 GAGGCTTCTCATGCTCTTTTATGAGAAAGCAGGATACCCACTGGAGACCCCATTTGAT 1014  
Db 922 GGTGTTTCTTCTTCCATCTTGAAGAGAC-----GAGATTCGCTATGAC 959  
1015 TTCCGGGTGAAAGGTGTAAACAGCATTTTCACTGACACCCATAGTATGCTATGCCCA 1074  
Db 970 TTCCGTGTTCTGTTGATCTTTCGATTTCTGAGATAGTCAAAATACGAGCTCGCTCCA 1029  
1075 AAAGGCTCATATGTTGTTGTTGATGACAAAGATGACAGGAACTATCAGTCTTCTGTC 1134  
Db 1030 AAGGGTCTATGATGTTGTTTATCGCAATTAAGAACTTTTCAATATCAGTACTTCTGT 1089  
1135 GATCAGATTGGCAGGTTGGCATCTATGCTTCCCAACCATTCGAGGCTCACGCGCTGGT 1194  
Db 1090 GATGCTGATTGGCAAGGAGGTATCTATGCTGCTACTATGGAAGGATCACGCGCTGGG 1149  
1195 GGCATTAGCGGAGCTGTTGGGCTGCTTGTGATGACCTTCGGTGAGACGGCTATGTTGAA 1254  
Db 1150 CAAACATTCGACCTTGTGGGCGCAATGCTTTATCACGCTCAGGAAGATCAAGGCC 1209  
1255 GCTACCAACAGATCATCAAACTGCTGCTTCTCAAGTCAGAACTGGAAAAATATCAAA 1314  
Db 1210 AATGCTAGAAAGATTGTTGACACTACAAGAAAGATTAGAAATGACCTTCAAACATTAAG 1269  
1315 GGCATCTTTGTTTGGGAATCCCAATTTGCTCATCTGCTGCGGATCCCGTAT--- 1371  
Db 1270 GGAATCAAAATTACAAGGGCCCAAGTGTGTTTGTATGTTAGCTGGACAAACCAATGATGA 1329

Qy	1372	TTTGACATCTACCGACTATCAACCTGATGACTGCTAAGGGTGGAACTTGAACGATTG	1431
Db	1330	GTGGAATCTACAGATTCCTAATCTTCTGAGGAAACATTTGSCAACTGAATGGACTT	1389
Qy	1432	CAGTTCCCAACCCAGTATTCAATTTCTGCATCAATTAATACGCCCCGGAACGAGTAGCT	1491
Db	1390	CAATTCACAGCTGGAGTTCATATCATGCTCACTATGAATCATCTCATCTGGACTCGCT	1449
Qy	1492	ATACAATTCCTAAGGACATTCGAGAACTCTGT	1523
Db	1450	GAAAGCTTTCTGTCGCCGATTGCAGAGCTGCAGT	1481

Search completed: March 30, 2004, 05:25:31  
Job time : 106 secs